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## TIDE TABLES

FOR THE

# PACIFIC COAST OF CANADA

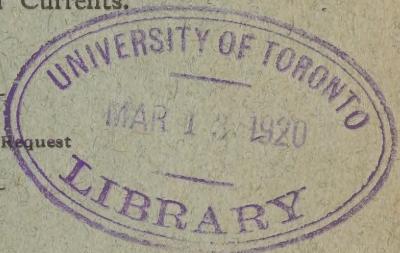
FOR THE YEAR

1920

Including Fuca Strait, the Strait of Georgia, and the Northern Coast.

With data for Slack Water in the navigable Passes and  
Narrows and Information on Currents.

Mailed — **FREE** — On Request



Issued by the Tidal and Current Survey in the Department of the

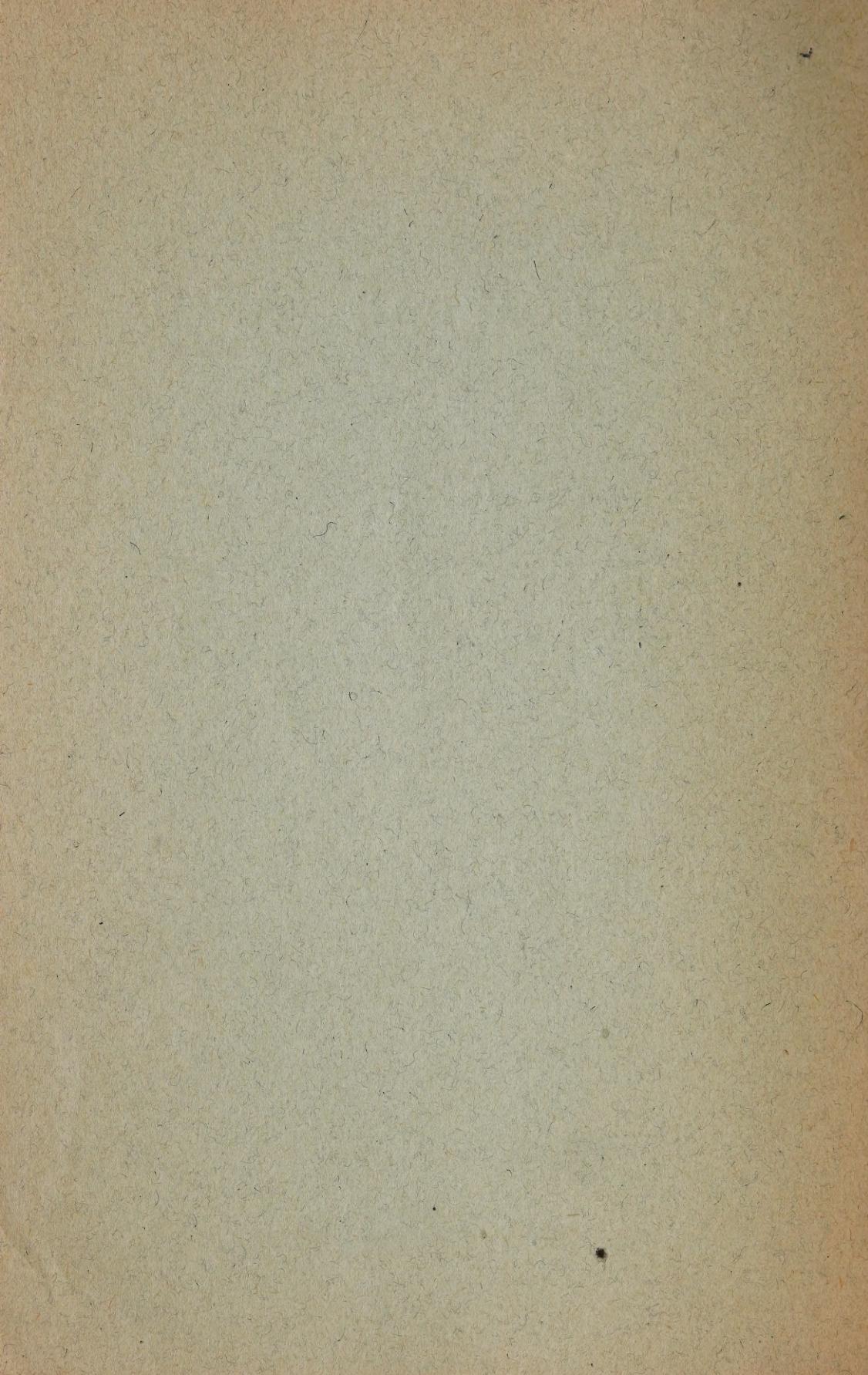
Naval Service of the Dominion of Canada.

(Twentieth year of issue.)

W. BELL DAWSON, M.A., D.Sc., M.Inst.C.E., F.R.S.C., Superintendent.

OTTAWA  
J. DE LABROQUERIE TACHÉ,  
PRINTER TO THE KING'S MOST EXCELLENT MAJESTY

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# TIDE TABLES

FOR THE  
PACIFIC COAST OF CANADA  
FOR 1920.

These Tide Tables are issued by the Tidal and Current Survey, in the Department of the Naval Service of the Dominion of Canada. They are based upon observation of the tides, obtained from self-registering tide gauges, which are kept in continuous operation day and night throughout the year. The record thus secured is reduced by the latest methods of harmonic analysis, by which the Tidal Constants are arrived at; and from these the six principal tide tables are calculated.

The Tide Tables for CLAYOQUOT are based upon tidal record during nine complete years. This tidal station is situated at Tofino, just within the entrance of the sound.

The Tide Tables for VICTORIA are based upon tidal record during eleven complete years. At this port, the high and low waters of the same day are often very unequal; and at times there is only one high water and one low water in the day, as the tide may rise or fall continuously during two successive tidal periods without turning.

The Tide Tables for SAND HEADS, are based on six complete years of tidal record, obtained between 1895 and 1904, at the lighthouse formerly situated off the main outlet of the Fraser river; together with four additional years of tidal record at the Pilot station near Point Atkinson. The tide is practically identical at these two stations, as they are both centrally situated in the Strait of Georgia.

The Tide Tables for VANCOUVER are based upon tidal record during eleven complete years.

The Tide Tables for PORT SIMPSON are based upon tidal record during ten complete years. This is the best port of reference for the tide at all points from Vancouver island northward as well as for the calculation of the time of Slack Water in the northern passes and narrows.

The Tide Tables for PRINCE RUPERT are based upon record during eight complete years.

In those Tide Tables in which the tides are placed in their order of occurrence, a comparison of the heights of the successive tides will show which is High Water and which is Low Water.

The Tidal Differences for other places are given on the following pages; with an explanation of their relation to the ports of reference for which full tide tables are published.

The Tables of Slack Water for FIRST NARROWS, ACTIVE PASS and PORLIER PASS are based on observations for periods of  $1\frac{1}{2}$  to three years. These tables are calculated from a series of differences with the time of the tide, with allowance for their variations, as explained at the beginning of the Slack Water tables. Also, the relation of one pass to another may be more constant than the relation with the time of the tide; and this enables other passes and narrows to be referred by a difference of time to those for which full tables are given.

The tables of Slack Water for SEYMOUR NARROWS are based upon observations during the greater part of the years 1897, 1910 and 1913. The differences of time for Slack Water in the other narrows and tidal rapids in that region, are given in a table appended.

**ACCURACY OF THE TIDE TABLES.**--As the accuracy of tidetables is represented by the length of the tidal observations on which they are based, those for all the six principal ports, mentioned above, are now superior to the tide tables for any port on the Pacific ocean, in America, Asia or Australia. Next to these Canadian ports is San Francisco, which is based on the longest record at any harbour on the Pacific coast of the United States.

W. BELL DAWSON,  
*Superintendent of Tidal Surveys.*

## TIDAL DIFFERENCES FOR TIME.

To obtain correct results with Tidal Differences, the coast must be divided into regions which correspond with the various types of the tide; with a Port of Reference in each region, for which Tide Tables are published.

The extent of the region that can best be referred to each port of reference, has now been carefully ascertained, and the limits between them determined. The time of the tide at the various localities can thus be deduced from the Tide Tables by means of the Tidal Differences indicated in the lists which follow.

The tide changes rapidly in character in its progress up Fuca strait and among the Gulf islands, and the special features of the Strait of Georgia are there developed. The region that can be referred to Victoria is thus limited to Fuca and Haro straits; and even in this limited area, the tidal differences are very variable for the Half Tides, as they are often obscure, and at times effaced.

The Gulf islands form a complex area in which the type of the tide is in a transition state, but the Half Tides are again well marked. It has been found possible to refer this region to Sand Heads, though this result is sometimes arrived at indirectly, by making use of a secondary port of reference.

As Vancouver harbour is inside Burrard inlet, the localities which can be referred to it are limited to the inlet itself. The open side of the city, on English bay, goes with the Strait of Georgia, and is referred to Sand Heads.

All localities in the Strait of Georgia can be referred to Sand Heads, as far north as a cross line indicated by Seymour narrows, Surge narrows and the Yuculta, in the various channels; and thence to the head of Bute inlet.

The network of channels and inlets opposite the northern end of Vancouver island, is very complex; and as high water to the north is practically simultaneous with low water to the south, and vice versa, the time of the tide changes rapidly. A series of tidal differences along the main channel next to Vancouver island, is given as a basis for this area, as well as at some localities among these channels, where observations have been obtained. The Half Tides are still a marked feature as far as Queen Charlotte sound.

The whole of the open coast of British Columbia, from Vancouver island northward, can be referred satisfactorily to Port Simpson; as well as the east and north coasts of the Queen Charlotte islands, where all the important harbours of those islands are situated.

## HEIGHT AND RATIO.

The rise of the tide at Springs and Neaps is given for the open coast of the Pacific, where these can be distinguished. For other regions, the mean rise and a ratio are given; as the diurnal inequality is there so dominant as to obscure all other features in the tide.

The "Mean Rise" is the average height of High Water above a Low-water datum in each locality which corresponds correctly with the datum at the Port of Reference. Thus for example, the datum levels at the localities throughout the Strait of Georgia, have been brought into correspondence with the datum in the Sand Heads tide tables; and north of Seymour narrows, they correspond with the datum at Port Simpson.

The "Ratio" indicates the height of High Water and the Half Tides in proportion to the Reference station. It may best be understood as a percentage; thus, 1·14 means that the rise is 14 per cent greater, and 0·96 that it is 96 per cent as much. By applying this percentage to the height in the Tide Tables for the Reference station, the local height will be obtained.

In Baynes sound, the Chart datum is lower than the corresponding datum at Sand Heads. To find the rise above the Chart datum, apply the ratio for Union to the height at Sand Heads, and add 2·0 feet.

TIDAL DIFFERENCES, to be applied to the Tide Tables named under Port of Reference.  
All results are in Pacific Standard time for the 120th Meridian west of Greenwich.

Locality.	Port of Reference.	For		Rise of Tide.	
		H.W.	L.W.	Springs.	Neaps
<i>West coast, Vancouver island.</i>					
Quatsino sound.....	Clayoquot.....	M.	M.		
Klaskish inlet.....	".....	Add 12	Add 14	11	8
Nasparte inlet.....	".....	" 06	" 08	11	8
Kyuquot sound.....	".....	" 06	" 08	12	9
Esperanza inlet.....	".....	" 04	" 05	12	9
Nootka sound.....	".....	" 04	" 05	12	9
Hesquiat harbour.....	".....	" 02	" 03	12	9
CLAYOQUOT. (See Tide Tables).....	".....	" 00	" 00	11	8
Ucluelet.....	".....	Sub. 10	Sub. 08	11	8
Barkley sound. At Bamfield.....	".....	" 13	" 10	11	8
Port Alberni.....	".....	" 04	" 09	10½	8
Carmanah point.....	".....	" 0	" 03	10	7½
Port Renfrew. In San Juan bay.....	".....	Add 05	Add 01	9	7

Locality.	Port of Reference.	For		Height of Tide.	
		Higher H.W.	Lower L.W.	For Half Tides.	Mean Rise
<i>Strait of Fuca, &amp;c.</i>					
Sooke, Vancouver island.....	Victoria.....	H.M.	H.M.	H.M.	Feet.
Esquimalt " "	".....	Sub. 0:19	Sub. 0:26	(Var.)	8·7 1·06
VICTORIA. (See Tide Tables).....	".....	Add 0:12	Add 0:17	Add 0:17	8·3 1·01
Sidney. Head of Haro strait.....	".....	" 0:00	" 0:00	" 0:00	8·2 1·00
<i>Gulf Islands, off the Strait of Georgia.</i>					
Deep cove, Saanich peninsula.....	Sand Heads.....	M.	M.	M.	
Tod inlet, Saanich arm.....	".....	Sub. 15	Sub. 45	Sub. 40	9·5 0·81
Cowichan bay.....	".....	" 14	" 35	" 32	9·7 0·82
Fulford harbour.....	".....	" 16	" 36	" 33	10·0 0·84
South Pender. (Bedwell harbour).....	".....	" 13	" 33	" 33	9·8 0·82
Hope bay, N. Pender island.....	".....	" 13	" 52	" 41	9·4 0·80
Ganges harbour, Saltspring island.....	".....	" 07	" 29	" 29	10·1 0·85
Telegraph harbour, Kuper island.....	".....	" 12	" 32	" 30	9·8 0·83
Osborn bay, Chemainus and Ladysmith.....	".....	" 18	" 36	" 31	10·2 0·86
Dodd narrows* and Percy anchorage.....	".....	" 02	" 18	" 13	12·6 1·06
Gabriola pass.* Between Gulf islands.....	".....	" 13	" 30	" 25	11·8 1·00
Porlier pass.* Between Gulf islands.....	".....	" 24	" 24	" 18	11·4 0·96
Mayne. In Active pass.....	".....	Add 06	" 04	" 01	11·2 0·94
<i>Strait of Georgia.</i>					
Port Moody. Head of Burrard inlet.....	Vancouver.....	Add 13	Add 24	Add 14	11·9 1·04
North Arm of Burrard inlet.....	".....	" 13	" 25	" 15	12·0 1·04
VANCOUVER. (See Tide Tables).....	".....	" 00	" 00	" 00	11·5 1·00
English bay. At Vancouver.....	Sand Heads.....	" 04	" 06	" 01	12·0 1·01
False creek. " "	".....	" 08	" 11	" 02	11·8 0·99

\* For the time of Slack Water, see tables for these passes, or the table of differences on page 60.

TIDAL DIFFERENCES, to be applied to the Tide Tables named under Port of Reference.  
All results are in Pacific Standard time for the 120th Meridian west of Greenwich.

Locality.	Port of Reference.	For Higher H.W.		For Lower L.W.		For Half Tides.	Height of Tide.	
		M.	M.	M.	M.		Feet.	
<i>Strait of Georgia.—Continued.</i>								
New Westminster. (See special tables, page 8)	Sand Heads	.....	.....	.....	.....		5½	0·45
Port Coquitlam, Haney and Sumas. (See p. 8.)	" "	.....	.....	.....	.....		4 to 1.	(Var.)
SAND HEADS and Point Atkinson.	" "	Add 00	Add 00	Add 00	Add 00		11·9	1·00
Bowen island.	" "	" 02	" 04	Sub. 01	12·2		1·03	
Squamish. Head of Howe sound.	" "	" 06	" 07	Add 05	12·4		1·04	
Sechelt.	" "	" 04	" 05	" 02	12·3		1·04	
Nanaimo.	" "	" 07	Sub. 02	" 03	12·8		1·08	
Departure bay.	" "	Sub. 01	" 16	Sub. 11	12·5		1·05	
Hammond bay.	" "	" 00	" 16	" 10	12·2		1·03	
Nanoose.	" "	Add 02	" 13	" 05	12·5		1·05	
Hornby island.	" "	" 03	Add 01	Add 04	12·7		1·07	
Union. On Baynes sound.	" "	" 03	" 01	" 04	13·2		1·12	
Comox. (Port Augusta).	" "	" 04	" 02	" 05	13·3		1·12	
Vananda, Texada island.	" "	" 08	" 10	" 05	12·7		1·07	
Powell river.	" "	" 10	" 14	" 05	13·1		1·11	
Lund and Savary island.	" "	" 14	" 16	" 08	13·6		1·14	
Baker passage.	" "	" 16	" 18	" 10	13·6		1·14	
Whaletown, Cortes island.	" "	" 19	" 22	" 14	13·7		1·15	
Heriot bay.	" "	" 20	" 24	" 16	13·8		1·16	
Deceit bay, Redonda island.	" "	" 22	" 32	" 21	13·9		1·17	
Bute inlet; at the head.	" "	" 22	" 32	" 21	14·1		1·19	
<i>Discovery passage to Queen Charlotte sound.</i>								
Cape Mudge.	Sand Heads	Add 0:12	Add 0:18	Add 0:08	12·1		1·02	
Quathiaski cove. On Discovery passage.	" "	" 0:05	" 0:16	Sub. 0:04	11·4		0·96	
Campbell river.	" "	Sub. 0:15	Sub. 0:10	" 0:35	11·2		0·94	
Gowlland harbour.	" "	" 0:40	" 0:40	" 1:05	10·8		0·91	
Nymphé cove. Mouth of Menzies bay.	" "	" 1:09	" 1:19	(Var.)	10·2		0·86	
SEYMORE NARROWS.* (See Slack Water tables.)								
Elk bay. On Discovery passage.	Pt. Simpson	Add 1:30	Add 1:51	Add 1:47	10·5		0·57	
Chatham point and Rock bay.	" "	" 1:03	" 1:24	" 1:20	10·8		0·59	
Forward harbour.	" "	" 0:31	" 0:38	" 0:40	12·2		0·66	
Vere cove. On Johnstone strait.	" "	" 0:25	" 0:38	" 0:35	12·4		0·67	
Salmon river.	" "	" 0:18	" 0:29	" 0:27	13·0		0·70	
Blinkinsop bay.	" "	" 0:12	" 0:26	" 0:24	13·0		0·70	
Port Neville.	" "	" 0:09	" 0:23	" 0:20	13·7		0·74	
Port Harvey.	" "	" 0:05	" 0:21	" 0:15	13·4		0·72	
Blackfish sound.	" "	Sub. 0:04	" 0:13	" 0:05	13·2		0·71	
Alert bay, Cormorant island.	" "	" 0:15	" 0:05	Sub. 0:06	13·1		0·71	
Knight inlet; at Glendale cannery.	" "	" 0:21	Sub. 0:05	" 0:16	16·1		0·86	
Blunden harbour. In Queen Charlotte sound.	" "	" 0:30	" 0:21	" 0:25	13·6		0·74	
Port Hardy.	" "	" 0:36	" 0:28	" 0:31	13·9		0·75	
Wadham's. In Rivers inlet.	" "	" 0:42	" 0:39	" 0:38	13·3		0·72	

\* For the time of Slack Water, see the tables for Seymour Narrows. Also for Slack Water in the Tuculta and other rapids and narrows in that region, see the table of differences on page 59.

TIDAL DIFFERENCES, to be applied to the Tide Tables named under Port of Reference.  
All results are in Pacific Standard time for the 120th Meridian west of Greenwich.

Locality.	Port of Reference.	For	For	For	Height of Tide.	
		Higher H. W.	Lower L. W.	Half Tides.	Mean Rise	Ratio.
<i>Channels north-east of Vancouver island.*</i>						
Chatham channel; at Root Point.....	Pt. Simpson	Add 0:02	Add 0:12	Add 0:14	13·9	0·75
Wellbore channel.....	" "	" 0:31	" 0:38	" 0:40	12·6	0·68
Green Point. In Cordero channel.....	" "	" 1:10	" 1:13	" 1:21	12·2	0·66
Blind channel. (Mayne passage).....	" "	" 1:00	" 1:02	" 1:18	12·1	0·65
Shoal bay. At east end of Thurlow island.....	" "	" 1:15	" 1:30	" 1:22	11·9	0·64

Locality.	Port of Reference.	For	For	Rise of Tide.	
		H.W.	L.W.	Springs.	Neaps
<i>Northern coast of B.C.</i>					
Kildala. In Rivers inlet.....	Port Simpson.....	Sub 44	Sub 38	14	11
Head of Rivers inlet. (R. I. Cannery).....	" "	" 44	" 37	14	11
Namu. On Fitz Hugh sound.....	" "	" 33	" 33	14½	12
Bella kula.....	" "	" 31	" 26	16	13½
Bella bella. (McLaughlin bay).....	" "	" 37	" 36	14	10
Ocean Falls. In Cousins inlet.....	" "	" 38	" 32	15	11½
Port Blakeney. In Millbank sound.....	" "	" 38	" 37	13	8
China Hat. On Klemtu passage.....	" "	" 35	" 33	13	8
Swanson bay. On Graham reach.....	" "	" 29	" 26	13	9
Hartley bay. In Wright sound.....	" "	" 23	" 16	13	10
Kitimat.....	" "	" 19	" 12	13½	10½
Lowe inlet. Off Grenville channel.....	" "	" 20	" 18	17	15
Surf inlet. On Laredo channel.....	" "	" 28	" 26	17½	15
Port Stephens. In Nepean sound.....	" "	" 26	" 22	18	15½
Port Canaveral. On Principe channel.....	" "	" 19	" 16	18	15½
Inverness. On North Skeena pass.....	" "	" 15	" 12	19½	15
Chismore passage; Lewis island.....	" "	" 02	Add 04	19½	15
Claxton. Mouth of Skeena river.....	" "	Add 04.	" 10	20	15½
Port Essington. (For variation, see page 8.).....	" "	" 32	" 47	21	15½
PORT SIMPSON. (See Tide Tables)......	" "	" 00	" 00	20	14½
Nass river; at Mill bay.....	" "	" 08	" 22	21	17
Granby bay. In Observatory inlet.....	" "	" 13	" 11	20½	16½
Stewart. Head of Portland canal.....	" "	" 04	" 01	22	17
<i>Queen Charlotte islands.</i>					
Lockeport. (Klunkwoi bay).....	" "	Sub. 08	Sub. 03	16	13
Pacofi. Head of Selwyn inlet.....	" "	" 03	Add 04	16	13
Queen Charlotte. In Skidegate inlet.....	" "	" 02	" 16	17	14
Shingle bay. "	" "	" 04	" 14	17	14
Masset harbour; at Indian village.....	" "	Add 17	" 23	9½	7
Naden harbour. On Dixon entrance.....	" "	Sub. 05	Sub. 04	13	10
Dadens. On Parry passage.....	" "	" 28	" 24	12½	9½
Juskatla bay. Head of Masset inlet.....	" "	Add 3:15	Add 3:33	7	5½

\* For the time of Slack Water in the channels in this region, see table on page 59.

**FRASER RIVER.**—The following tables for the time of the tide on the Fraser river, are based on simultaneous comparisons at New Westminster and Sand Heads during two complete years; and on further comparisons between New Westminster and the upper ports. These were made for  $4\frac{1}{2}$  months at Port Coquitlam on Pitt river, during a full year at Port Haney, and during the six months at Sumas in which the tide is definitely felt there. During the freshet months, the tide is retarded considerably.

The differences of time are to be added to the tide tables for Sand Heads.

Locality.	ORDINARY MONTHS. (Other than freshet months.)			FRESHET MONTHS. (Usually May, June, July.)			Mean Rise of the Tide. Feet.
	Higher H. W.	Half Tides.	Lower L. W.	Higher H. W.	Half Tides.	Lower L. W.	
	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	
New Westminster.....Add :—	1:00	1:00	*	1:00	1:14	*	$5\frac{1}{2}$
Port Coquitlam.....Add :—	2:31	1:35	4:12	2:50	2:10	4:30	4
Port Haney.....Add :—	2:14	2:15	4:41	2:40	3:05	5:35	$2\frac{1}{2}$
Sumas.....Add :—	4:25	5:05	7:40	†	†	†	1

At New Westminster, lower Low Water arrives later as the height of the tide becomes less, as it is then more retarded. The difference of time to be added, according to the height in the tide tables for Sand Heads, is indicated below in hours and minutes :—

Height in Sand Heads Tide Tables .....	5 ft.	4 ft.	3 ft.	2 ft.	1 ft.	0 ft.	— 1 ft.
Add, for lower Low Water .....	2: 13	2: 28	2: 47	3: 04	3: 16	3: 25	3: 33

At Port Coquitlam and Port Haney similarly, lower Low Water may arrive half an hour earlier or later than the above averages give, according to the height at Sand Heads.

*Rise at New Westminster.*—The Low-water datum in the harbour is at 7:00 feet above the zero level in the tide tables for Sand Heads. The rise above this datum in the ordinary months (when there is no freshet) is 45 per cent of the height in the tide tables for Sand Heads. In the freshet months, the level of lower Low Water is elevated from 7 feet above the zero, to 12 feet; and the rise of the tide from that level is then 20 to 30 per cent of the height in the tide tables. The actual level of High Water is thus higher in the freshet months.

**PORT ESSINGTON.**—A comparison with simultaneous tides at Port Simpson during twenty-two months, in 1909, 1910 and 1911, gives the following result on the average :—

Add to the time of tide at Port Simpson : For High Water, 32m. For Low Water, 47m.

Considerable variations from these average values occur during the course of the month and year. In the course of the lunar month, the following values should be used for greater accuracy :—

For High Water.—At Spring Tides, add 36m.	At Neap Tides, add 29m.
For Low Water. — " " add 61m.	" " add 34m.

\* For the time of lower Low Water at New Westminster, see the table next below.

† During the freshet months, there is no rise of tide at Sumas.

## DECLINATION OF THE SUN AND MOON.—1920.

In Pacific Standard time; for the 120th Meridian west.

Moon on Equator.	Maximum South.		Moon on Equator.	Maximum North.		Sun's declination.
January 10th	3 h.	January 17th	13 h.	January 24th	19 h.	January 3rd 21h.
February 6th	14 h.	February 13th	21 h.	February 21st	2 h.	February 27th 13 h.
March 5th	0 h.	March 12th	6 h.	March 19th	10 h.	March 25th 19 h. Equinox, March 21st.
April 1st	8 h.	April 8th	13 h.	April 15th	20 h.	April 22nd 1 h.
April 28th	13 h.	May 5th	21 h.	May 13th	5 h.	May 19th 11 h.
May 25th	19 h.	June 2nd	3 h.	June 9th	14 h.	June 15th 22 h. Solstice, June 21st.
June 22nd	2 h.	June 29th	10 h.	July 6th	21 h.	July 13th 9 h.
July 19th	12 h.	July 26th	17 h.	August 3rd	3 h.	August 9th 18 h.
August 15th	22 h.	August 23rd	1 h.	August 30th	10 h.	September 6th 1 h. Equinox, September 23rd.
September 12th	8 h.	September 19th	9 h.	September 26th	18 h.	October 3rd 4 h.
October 9th	16 h.	October 16th	17 h.	October 24th	3 h.	October 30th 13 h.
November 5th	23 h.	November 13th	1 h.	November 20th	13 h.	November 26th 22 h.
December 3rd	4 h.	December 10th	9 h.	December 17th	22 h.	December 24th 10 h. Solstice, December 22nd.
December 30th	12 h.					

## PHASES AND DISTANCE OF THE MOON.—1920.

In Pacific Standard time; for the 120th Meridian west.

Month.	New Moon.	First Quarter.		Full Moon.	Last Quarter.		Perigee.		Apogee.	
	DAY.	H. M.	DAY.	H. M.	DAY.	H. M.	DAY.	H.	DAY.	H.
January	20th	21:27	28th	7:38	5th	13:05	12th	16:09	4th	7
February	"				4th	0:42	11th	12:49	1st	10
March	19th	13:35	26th	15:50	4th	13:13	12th	9:57	28th	6
April	"		20th	2:56	26th	22:45	3rd	2:55	24th	4
May	"		18th	13:43	26th	5:28	2nd	17:47	20th	17
June	"		17th	22:25	24th	13:07	1st	9:18	6th	12
July	"		16th	5:41	22nd	22:50	1st	0:41	18th	22
August	"		15th	12:25	22nd	11:20	30th	15:19	16th	7
September	"		13th	19:44	21st	2:52	29th	5:03	29th	23
October	"		12th	4:52	19th	20:55	27th	17:57	14th	16
November	"		11th	16:50	19th	16:29	27th	6:09	11th	22
December	"		10th	8:05	18th	12:13	25th	17:42	23rd	21
"	10th	2:04	18th	6:40	25th	4:38	31st	20:35	27th	6

## TIDE TABLES.—VICTORIA, B.C.—1920.

Date.	Day.	JANUARY.				FEBRUARY.													
		Time. H't.	Time. H't.	Time. H't.	Time. H't.	Date.	Day.	Time. H't.	Time. H't.										
		H. M. FT.	H. M. FT.	H. M. FT.	H. M. FT.		H. M. FT.	H. M. FT.	H. M. FT.										
1	Th.	.....	9:41	9·7	17:56	2·5	1	S.	.....	10:38	9·9	.....	19:02	1·3					
2	F.	.....	10:16	10·1	18:43	1·7	2	M.	5:00	8·5	6:42	8·4	11:38	9·8	19:48	1·2			
3	Sa.	.....	10:56	10·3	19:27	0·9	3	Tu.	5:10	8·5	7:44	8·0	12:36	9·5	20:31	1·4			
4	S.	.....	11:40	10·4	20:09	0·5	4	W.	5:21	8·3	8:41	7·4	13:30	9·1	21:12	1·8			
5	M.	5:46	8·7	7:48	8·5	12:27	10·2	5	Th.	5:00	8·3	9:35	6·8	14:23	8·6	21:51	2·5		
6	Tu.	6:08	8·7	8:44	8·3	13:15	9·9	6	F.	5:09	8·4	10:28	6·3	15:18	8·0	22:29	3·3		
7	W.	6:28	8·7	9:42	8·0	14:05	9·4	7	Sa.	5:34	8·5	11:22	5·7	16:24	7·4	23:04	4·2		
8	Th.	6:39	8·7	10:43	7·5	14:57	8·7	8	S.	6:02	8·7	12:18	5·2	17:48	6·8	23:36	5·2		
9	F.	6:49	8·7	11:52	7·0	15:54	7·8	9	M.	6:33	8·8	13:21	4·7	19:28	6·5	.....	.....		
10	Sa.	7:12	8·8	13:07	6·4	17:12	7·0	10	Tu.	0:05	6·0	7:07	8·9	14:26	4·3	.....	.....		
11	S.	0:20	4·1	7:42	9·0	14:28	5·7	19:06	6·3	11	W.	.....	.....	7:45	8·9	15:26	3·9	.....	.....
12	M.	0:57	5·1	8:13	9·1	15:42	5·0	.....	12	Th.	.....	.....	8:24	8·9	16:22	3·5	.....	.....	
13	Tu.	.....	8:45	9·2	16:44	4·3	.....	13	F.	.....	.....	9:04	8·8	17:15	3·2	.....	.....		
14	W.	.....	9:18	9·3	17:37	3·8	.....	14	Sa.	.....	.....	9:48	8·7	18:04	2·9	.....	.....		
15	Th.	.....	9:53	9·3	18:21	3·2	.....	15	S.	.....	.....	10:37	8·6	18:47	2·6	.....	.....		
16	F.	.....	10:30	9·3	18:57	2·7	.....	16	M.	4:54	8·6	8:12	8·4	11:28	8·6	19:24	2·4		
17	Sa.	.....	11:07	9·3	19:29	2·3	.....	17	Tu.	5:02	8·4	7:54	8·0	12:16	8·5	19:59	2·3		
18	S.	.....	11:40	9·2	20:00	1·9	.....	18	W.	5:18	8·1	8:21	7·5	13:02	8·4	20:33	2·4		
19	M.	6:06	8·8	7:42	8·8	12:06	9·2	20:31	1·7	19	Th.	4:38	7·8	8:55	7·0	13:47	8·3	21:07	2·6
20	Tu.	6:24	8·8	8:30	8·5	12:21	9·1	21:03	1·6	20	F.	4:08	7·9	9:32	6·3	14:34	8·1	21:42	3·1
21	W.	6:59	8·6	9:13	8·3	12:54	8·9	21:36	1·8	21	Sa.	4:21	8·0	10:13	5·6	15:30	7·8	22:16	3·8
22	Th.	6:57	8·3	9:55	7·8	13:34	8·6	22:09	2·2	22	S.	4:46	8·2	11:01	5·0	16:38	7·4	22:48	4·5
23	F.	6:06	8·1	10:39	7·3	14:22	8·2	22:43	2·7	23	M.	5:13	8·4	11:54	4·3	18:03	7·0	23:18	5·3
24	Sa.	6:21	8·2	11:30	6·8	15:20	7·6	23:16	3·5	24	Tu.	5:41	8·6	12:51	3·7	19:30	6·7	23:45	6·1
25	S.	6:40	8·4	12:29	6·1	16:53	7·0	23:47	4·3	25	W.	.....	.....	6:07	8·9	13:51	3·1	.....	.....
26	M.	7:02	8·6	13:31	5·3	18:54	6·5	.....	26	Th.	.....	.....	6:32	9·1	14:52	2·7	.....	.....	
27	Tu.	0:11	5·1	7:26	8·9	14:32	4·5	20:45	6·2	27	F.	.....	.....	7:02	9·2	15:53	2·3	.....	.....
28	W.	0:05	5·9	7:51	9·2	15:31	3·7	.....	28	Sa.	.....	.....	7:50	9·1	16:51	2·1	.....	.....	
29	Th.	.....	8:20	9·5	16:28	2·9	.....	29	S.	.....	.....	9:09	9·0	17:46	2·1	.....	.....		
30	F.	.....	8:54	9·8	17:22	2·2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....		
31	Sa.	.....	9:40	9·9	18:13	1·7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....		

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours from midnight to midnight. The figures for height serve to distinguish High Water from Low Water. Where blanks occur in the tables, the tide rises or falls continuously during two successive tidal periods without turning.

The HEIGHT is in feet and tenths of a foot, above the average level of lower Low Water.

ESQUIMALT.—To find the depth of water on the sill of the Dry Dock at any tide, add 19·0 feet to the height of High Water as above given. TIDAL DIFFERENCES for Fuca and Haro straits are given on page 5.

Date.	Day.	MARCH.								APRIL.									
		Time. H't.		Time. H't.		Time. H't.		Time. H't.		Date.		Day.		Time. H't.		Time. H't.		Time. H't.	
		H. M.	FT.	H. M.	FT.	H. M.	FT.	H. M.	FT.					H. M.	FT.	H. M.	FT.	H. M.	FT.
1	M.	3:36	8·2	5:33	8·0	10:30	8·8	18:38	2·2	1	Th.	1:39	7·8	7:58	5·1	13:23	7·2	19:39	4·4
2	Tu.	3:54	8·1	7:00	7·5	11:48	8·6	19:26	2·4	2	F.	1:56	8·0	8:35	4·3	14:28	7·2	20:18	5·0
3	W.	4:06	7·9	7:53	6·7	12:54	8·4	20:10	2·8	3	Sa.	2:15	8·2	9:11	3·5	15:32	7·2	20:55	5·6
4	Th.	3:12	7·9	8:39	5·9	13:53	8·1	20:50	3·4	4	Sh.	2:35	8·3	9:48	3·0	16:39	7·1	21:31	6·2
5	F.	3:26	8·1	9:23	5·2	14:51	7·8	21:28	4·1	5	M.	2:56	8·4	10:28	2·6	18:00	7·0	22:09	6·7
6	Sa.	3:47	8·2	10:08	4·6	15:53	7·4	22:04	4·8	6	Tu.	.....	.....	3:16	8·4	11:11	2·4	.....	.....
7	Sh.	4:11	8·4	10:55	4·4	17:03	7·0	22:36	5·5	7	W.	.....	.....	3:24	8·4	11:56	2·3	.....	.....
8	M.	4:38	8·5	11:43	3·8	18:21	6·8	23:05	6·2	8	Th.	.....	.....	3:15	8·3	12:43	2·4	.....	.....
9	Tu.	.....	.....	5:08	8·5	12:36	3·5	.....	.....	9	F.	.....	.....	3:24	8·2	13:32	2·5	.....	.....
10	W.	.....	.....	5:34	8·4	13:30	3·3	.....	.....	10	Sa.	.....	.....	3:36	8·1	14:22	2·7	.....	.....
11	Th.	.....	.....	5:18	8·3	14:25	3·2	.....	.....	11	Sh.	1:30	7·9	.....	.....	.....	.....	15:13	2·9
12	F.	.....	.....	5:06	8·3	15:19	3·2	.....	.....	12	M.	1:48	7·8	.....	.....	.....	.....	16:04	3·2
13	Sa.	.....	.....	5:00	8·3	16:12	3·1	.....	.....	13	Tu.	2:03	7·6	.....	.....	.....	.....	16:54	3·6
14	Sh.	3:12	8·2	.....	.....	17:03	3·1	.....	.....	14	W.	0:24	7·5	7:30	6·3	11:09	6·6	17:43	3·9
15	M.	3:25	8·1	.....	.....	17:51	3·1	.....	.....	15	Th.	0:39	7·6	7:06	5·4	12:18	6·7	18:30	4·3
16	Tu.	3:37	7·9	8:02	7·4	11:18	7·6	18:36	3·1	16	F.	0:56	7·8	7:30	4·4	13:23	6·9	19:14	4·7
17	W.	3:48	7·6	7:48	6·8	12:15	7·6	19:18	3·2	17	Sa.	1:16	8·1	8:03	3·4	14:25	7·1	19:55	5·2
18	Th.	2:18	7·6	8:03	6·1	13:10	7·6	19:57	3·4	18	Sh.	1:39	8·4	8:44	2·4	15:28	7·2	20:35	5·7
19	F.	2:31	7·7	8:29	5·2	14:04	7·6	20:34	3·8	19	M.	2:03	8·7	9:28	1·6	16:34	7·3	21:16	6·2
20	Sa.	2:48	7·8	9:05	4·3	15:00	7·6	21:10	4·3	20	Tu.	2:26	8·9	10:14	1·1	17:45	7·4	22:00	6·8
21	Sh.	3:09	8·2	9:49	3·6	16:04	7·5	21:45	5·0	21	W.	2:50	9·0	11:03	0·7	19:10	7·5	22:49	7·2
22	M.	3:33	8·4	10:38	2·9	17:15	7·3	22:21	5·7	22	Th.	3:16	9·0	11:53	0·7	21:34	7·7	23:48	7·6
23	Tu.	3:58	8·6	11:29	2·4	18:32	7·2	22:58	6·4	23	F.	3:44	8·7	12:44	0·9	22:36	7·9	.....	.....
24	W.	4:22	8·7	12:22	2·0	19:52	7·1	23:36	7·0	24	Sa.	1:00	7·7	4:15	8·3	13:36	1·3	23:15	8·0
25	Th.	.....	.....	4:45	8·8	13:17	1·8	.....	.....	25	Sh.	2:18	7·6	4:48	7·7	14:31	2·0	23:39	7·9
26	F.	.....	.....	5:09	8·8	14:14	1·8	.....	.....	26	M.	.....	.....	.....	.....	15:28	2·8	23:52	7·9
27	Sa.	.....	.....	5:38	8·6	15:12	2·0	.....	.....	27	Tu.	7:00	6·2	9:45	6·5	16:25	3·7	23:50	7·9
28	Sh.	1:30	7·9	3:05	7·8	6:24	8·2	16:10	2·3	28	W.	6:48	5·4	11:27	6·3	17:19	4·5	.....	.....
29	M.	1:54	7·9	4:49	7·4	9:15	7·7	17:07	2·8	29	Th.	0:05	8·0	7:19	4·5	12:59	6·4	18:10	5·3
30	Tu.	2:33	7·8	6:25	6·8	10:54	7·4	18:02	3·3	30	F.	0:28	8·2	7:51	3·6	15:35	6·7	18:59	5·9
31	W.	2:00	7·8	7:19	6·0	12:12	7·3	18:53	3·9										

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours, from midnight to midnight. The figures for height serve to distinguish High Water from Low Water. Where blanks occur in the tables, the tide rises or falls continuously during two successive tidal periods without turning.

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ESQUIMALT.—To find the depth of water on the sill of the Dry Dock at any tide, add 19·0 feet to the height of High Water as above given. TIDAL DIFFERENCES for Fuca and Haro straits are given on page 5.

## TIDE TABLES.—VICTORIA, B.C.—1920.

Date.	Day.	MAY.								Date.	Day.	JUNE.							
		Time. H't.		Time. H't.		Time. H't.		Time. H't.				Time. H't.		Time. H't.		Time. H't.		Time. H't.	
		H. M.	FT.	H. M.	FT.	H. M.	FT.	H. M.	FT.			H. M.	FT.	H. M.	FT.	H. M.	FT.			H. M.	FT.
1	Sa.	0:50	8·3	8:24	2·8	16:49	7·0	19:46	6·5	1	Tu.	0:32	8·8	9:04	1·1	19:24	8·1	20:49	8·0
2	S.	1:11	8·5	8:57	2·2	17:54	7·3	20:29	7·0	2	W.	0:42	8·8	9:38	0·9	20:12	8·2	21:34	8·1
3	M.	1:30	8·6	9:31	1·7	18:56	7·7	21:08	7·3	3	Th.	0:51	8·7	10:14	0·9	20:56	8·2	22:20	8·1
4	Tu.	1:44	8·7	10:06	1·5	.....	.....	.....	.....	4	F.	1:04	8·6	10:52	1·0	21:35	8·1	23:11	8·0
5	W.	1:50	8·6	10:43	1·4	.....	.....	.....	.....	5	Sa.	1:24	8·3	11:31	1·4	22:06	8·0	.....	.....
6	Th.	1:51	8·5	11:23	1·5	.....	.....	.....	.....	6	S.	0:23	7·8	1:51	7·9	12:10	1·9	22:30	7·8
7	F.	2:00	8·3	12:04	1·7	.....	.....	.....	.....	7	M.	.....	.....	.....	.....	12:48	2·4	21:02	7·8
8	Sa.	2:18	8·0	.....	.....	12:46	2·0	23:30	8·0	8	Tu.	.....	.....	.....	.....	13:24	3·1	21:18	7·9
9	S.	.....	..	.....	.....	13:29	2·4	23:48	7·8	9	W.	.....	.....	.....	.....	13:53	3·9	21:36	8·0
10	M.	.....	.....	.....	.....	14:13	2·9	22:50	7·7	10	Th.	4:35	5·2	9:33	5·5	14:11	4·6	21:56	8·3
11	Tu.	.....	.....	.....	.....	14:58	3·4	22:45	7·7	11	F.	5:20	4·2	11:08	5·6	14:16	5·3	22:19	8·6
12	W.	.....	.....	.....	.....	15:45	4·1	23:02	7·9	12	Sa.	6:04	3·1	.....	.....	.....	.....	22:46	9·0
13	Th.	6:18	5·1	11:18	5·9	16:33	4·7	23:23	8·1	13	S.	6:47	2·0	.....	.....	.....	.....	23:17	9·4
14	F.	6:42	4·1	12:26	6·1	17:23	5·3	23:48	8·4	14	M.	7:29	1·0	.....	.....	.....	.....	23:52	9·6
15	Sa.	7:13	3·0	13:36	6·5	18:14	5·9	.....	.....	15	Tu.	8:10	0·2	.....	.....	.....	.....	.....	.....
16	S.	0:15	8·7	7:50	1·9	14:50	6·8	19:04	6·4	16	W.	0:30	9·8	8:51	-0·4	18:19	7·8	20:24	7·6
17	M.	0:41	9·1	8:29	1·0	16:08	7·1	19:53	6·8	17	Th.	1:09	9·7	9:33	-0·5	18:59	7·9	21:21	7·6
18	Tu.	1:07	9·3	9:10	0·3	17:32	7·4	20:43	7·2	18	F.	1:49	9·3	10:17	-0·2	19:29	8·0	22:22	7·5
19	W.	1:34	9·4	9:53	-0·2	19:00	7·7	21:36	7·5	19	Sa.	2:31	8·7	11:02	0·3	19:50	8·1	23:31	7·2
20	Th.	2:04	9·3	10:38	-0·2	20:08	8·0	22:34	7·7	20	S.	3:20	8·0	11:48	1·2	20:05	8·2	.....	.....
21	F.	2:37	9·0	11:25	0·1	20:57	8·1	23:41	7·6	21	M.	0:54	6·7	4:19	7·0	12:33	2·2	20:22	8·2
22	Sa.	3:13	8·4	12:14	0·7	21:30	8·2	.....	.....	22	Tu.	2:28	5·9	6:21	6·2	13:16	3·4	20:46	8·4
23	S.	1:06	7·4	3:52	7·7	13:04	1·5	21:50	8·2	23	W.	3:48	5·1	8:30	5·6	13:57	4·5	21:14	8·5
24	M.	.....	.....	.....	.....	13:55	2·5	22:03	8·2	24	Th.	4:52	4·2	.....	.....	.....	.....	21:44	8·6
25	Tu.	.....	.....	.....	.....	14:45	3·6	22:19	8·3	25	F.	5:42	3·5	.....	.....	.....	.....	22:15	8·7
26	W.	5:47	5·1	10:21	5·7	15:34	4·6	22:40	8·4	26	Sa.	6:24	2·8	.....	.....	.....	.....	22:47	8·8
27	Th.	6:20	4·2	13:48	5·8	16:24	5·6	23:04	8·5	27	S.	7:01	2·2	.....	.....	.....	.....	23:17	8·9
28	F.	6:54	3·3	15:30	6·5	17:16	6·5	23:29	8·6	28	M.	7:36	1·7	.....	.....	.....	.....	23:42	8·9
29	Sa.	7:27	2·6	16:36	7·2	18:13	7·1	23:53	8·7	29	Tu.	8:10	1·3	18:12	8·3	19:27	8·2	.....	.....
30	S.	7:59	2·0	17:36	7·6	19:12	7·5	.....	.....	30	W.	0:01	8·8	8:43	1·1	18:54	8·3	20:16	8·2
31	M.	0:15	8·8	8:31	1·5	18:33	1·9	20:03	7·9										

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours, from midnight to midnight. The figures for height serve to distinguish High Water from Low Water. Where blanks occur in the tables, the tide rises or falls continuously during two successive tidal periods without turning.

The HEIGHT is in feet and tenths of a foot, above the average level of lower Low Water.

ESQUIMALT.—To find the depth of water on the sill of the Dry Dock at any tide, add 19·0 feet to the height of High Water as above given. TIDAL DIFFERENCES for Fuca and Haro straits are given on page 5.

		JULY.										AUGUST.							
Date.	Day.	Time.	H't.	Time.	H't.	Time.	H't.	Time.	H't.	Date.	Day.	Time.	H't.	Time.	H't.	Time.	H't.	Time.	H't.
1	<b>Th.</b>	0:15	8·7	9:16	1·0	19:30	8·2	21:06	8·0	1	<b>Si.</b>	1:48	7·8	9:54	2·0	17:32	7·3	22:22	6·5
2	<b>F.</b>	0:33	8·6	9:50	1·0	19:59	8·1	21:58	7·9	2	<b>M.</b>	2:33	7·5	10:28	2·6	17:51	7·4	23:07	6·0
3	<b>Sa.</b>	0:58	8·3	10:25	1·3	20:20	7·9	22:52	7·6	3	<b>Tu.</b>	3:30	7·0	11:01	3·2	18:14	7·5	.....	
4	<b>Si.</b>	1:30	7·9	11:00	1·7	20:36	7·7	23:49	7·2	4	<b>W.</b>	0:04	5·4	4:57	6·5	11:32	4·0	18:38	7·7
5	<b>M.</b>	2:12	7·5	11:34	2·3	19:30	7·6	.....		5	<b>Th.</b>	1:05	4·7	6:36	6·1	11:55	4·7	19:01	8·0
6	<b>Tu.</b>	0:48	6·7	3:09	6·9	12:06	3·0	19:48	7·7	6	<b>F.</b>	2:03	4·0	8:11	5·9	12:04	5·4	19:22	8·4
7	<b>W.</b>	1:48	6·0	4:24	6·2	12:34	3·8	20:09	8·0	7	<b>Sa.</b>	2:50	3·3	9:30	5·8	12:06	5·8	19:42	8·7
8	<b>Th.</b>	2:47	5·1	7:48	5·7	12:50	4·5	20:32	8·3	8	<b>Si.</b>	3:54	2·6	.....	.....	.....	.....	20:19	9·0
9	<b>F.</b>	3:42	4·2	9:36	5·5	12:54	5·2	20:56	8·7	9	<b>M.</b>	4:48	2·0	.....	.....	.....	.....	21:11	9·1
10	<b>Sa.</b>	4:34	3·3	.....		.....		21:22	9·0	10	<b>Tu.</b>	5:41	1·4	.....	.....	.....	.....	22:09	9·2
11	<b>Si.</b>	5:25	2·3	.....		.....		21:54	9·3	11	<b>W.</b>	6:33	1·1	16:32	7·6	18:03	7·5	23:13	9·1
12	<b>M.</b>	6:15	1·5	.....		.....		22:35	9·6	12	<b>Th.</b>	7:23	1·0	16:48	7·5	19:16	7·1	.....	
13	<b>Tu.</b>	7:03	0·7	.....		.....		23:24	9·7	13	<b>F.</b>	0:18	8·9	8:09	1·1	16:30	7·4	20:13	6·5
14	<b>W.</b>	7:49	0·2	17:18	7·7	19:12	7·7	.....		14	<b>Sa.</b>	1:18	8·7	8:51	1·5	16:03	7·5	21:06	5·9
15	<b>Th.</b>	0:15	9·6	8:33	0·0	17:52	7·7	20:18	7·4	15	<b>Si.</b>	2:16	8·2	9:32	2·2	16:27	7·7	21:58	5·3
16	<b>F.</b>	1:07	9·4	9:15	0·2	18:04	7·7	21:18	7·1	16	<b>M.</b>	3:15	7·7	10:12	3·0	16:56	7·8	22:52	4·7
17	<b>Sa.</b>	1:58	8·9	9:56	0·6	18:00	7·8	22:16	6·7	17	<b>Tu.</b>	4:21	7·1	10:51	3·9	17:26	7·9	23:49	4·3
18	<b>Si.</b>	2:50	8·3	10:36	1·4	18:18	7·9	23:17	6·1	18	<b>W.</b>	5:42	6·6	11:28	4·8	17:57	8·1	.....	
19	<b>M.</b>	3:49	7·5	11:17	2·4	18:42	8·0	.....		19	<b>Th.</b>	0:50	3·9	7:12	6·3	12:02	5·7	18:31	8·2
20	<b>Tu.</b>	0:24	5·6	5:12	6·7	11:59	3·4	19:14	8·2	20	<b>F.</b>	1:51	3·5	.....	.....	.....	.....	19:12	8·2
21	<b>W.</b>	1:35	5·0	7:00	6·1	12:42	4·5	19:47	8·4	21	<b>Sa.</b>	2:50	3·2	.....	.....	.....	.....	19:59	8·2
22	<b>Th.</b>	2:46	4·3	9:00	5·8	13:24	5·5	20:21	8·5	22	<b>Si.</b>	3:47	3·0	.....	.....	.....	.....	20:50	8·1
23	<b>F.</b>	3:51	3·7	.....		.....		20:55	8·6	23	<b>M.</b>	4:41	2·8	.....	.....	.....	.....	21:42	8·0
24	<b>Sa.</b>	4:50	3·2	.....		.....		21:30	8·7	24	<b>Tu.</b>	5:33	2·6	15:54	8·0	20:30	7·7	22:33	7·9
25	<b>Si.</b>	5:42	2·7	.....		.....		22:07	8·7	25	<b>W.</b>	6:21	2·5	16:12	7·9	20:09	7·6	23:23	7·9
26	<b>M.</b>	6:25	2·3	.....		.....		22:48	8·6	26	<b>Th.</b>	7:03	2·4	16:31	7·7	19:57	7·2	.....	
27	<b>Tu.</b>	7:03	1·9	.....		.....		23:30	8·5	27	<b>F.</b>	0:12	7·8	7:39	2·4	16:51	7·5	20:14	6·8
28	<b>W.</b>	7:38	1·7	17:39	8·2	19:30	8·0	.....		28	<b>Sa.</b>	1:00	7·7	8:14	2·5	15:26	7·3	20:42	6·2
29	<b>Th.</b>	0:10	8·4	8:12	1·5	18:00	8·0	20:17	7·7	29	<b>Si.</b>	1:46	7·6	8:49	2·8	15:39	7·3	21:18	5·6
30	<b>F.</b>	0:44	8·3	8:45	1·5	18:19	7·7	21:01	7·4	30	<b>M.</b>	2:33	7·5	9:25	3·2	15:55	7·4	21:58	5·0
31	<b>Sa.</b>	1:14	8·1	9:19	1·7	18:40	7·5	21:42	7·0	31	<b>Tu.</b>	3:27	7·3	10:00	3·8	16:14	7·5	22:42	4·3

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours, from midnight to midnight. The figures for height serve to distinguish High Water from Low Water. Where blanks occur in the tables, the tide rises or falls continuously during two successive tidal periods without turning.

The HEIGHT is in feet and tenths of a foot, above the average level of lower Low Water.

ESQUIMALT.—To find the depth of water on the sill of the Dry Dock at any tide, add 19·0 feet to the height of High Water as above given. TIDAL DIFFERENCES for Fuca and Haro straits are given on page 5.

Date.	Day.	SEPTEMBER.								OCTOBER.												
		Time. H't.		Time. H't.		Time. H't.		Time. H't.		Date.		Day.		Time. H't.		Time. H't.		Time. H't.		Time. H't.		
		H. M. FT.			H. M. FT.																	
1	W.	4:30	7·0	10:33	4·5	16:36	7·7	23:30	3·8	1	F.	6:12	7·2	10:37	6·0	15:31	8·5	23:49	1·8			
2	Th.	5:44	6·7	11:02	5·2	16:59	7·9	.....	.....	2	Sa.	7:30	7·2	11:15	7·1	15:51	8·6	.....	.....			
3	F.	0:24	3·2	7:12	6·5	11:25	5·9	17:22	8·2	3	S.	0:43	1·6	.....	.....	.....	.....	16:15	8·6			
4	Sa.	1:21	2·7	8:30	6·5	10:26	6·4	17:44	8·4	4	M.	1:39	1·6	.....	.....	.....	.....	16:56	8·4			
5	S.	2:19	2·3	.....	.....	.....	.....	18:09	8·6	5	Tu.	2:36	1·9	12:30	7·8	14:54	7·6	17:53	7·9			
6	M.	3:18	2·0	.....	.....	.....	.....	19:00	8·6	6	W.	3:33	2·3	13:00	7·7	16:21	7·2	21:00	7·4			
7	Tu.	4:15	1·9	.....	.....	.....	.....	20:38	8·4	7	Th.	4:30	2·8	12:30	7·7	17:47	6·5	22:36	7·2			
8	W.	5:10	1·9	15:00	7·6	17:06	7·3	22:15	8·3	8	F.	5:26	3·4	12:42	7·8	18:38	5·6	23:58	7·1			
9	Th.	6:05	2·1	15:13	7·5	18:21	6·8	23:28	8·1	9	Sa.	6:19	4·1	12:59	7·9	19:23	4·7	.....	.....			
10	F.	6:56	2·4	14:08	7·4	19:20	6·0	.....	.....	10	S.	1:09	7·2	7:07	4·7	13:18	8·1	20:06	3·8			
11	Sa.	7:33	8·0	7:42	2·8	14:25	7·5	20:10	5·2	11	M.	2:17	7·2	7:51	5·3	13:38	8·3	20:47	3·1			
12	S.	1:36	7·8	8:23	3·4	14:46	7·7	20:58	4·4	12	Tu.	3:24	7·2	8:32	6·0	13:58	8·5	21:27	2·5			
13	M.	2:40	7·6	9:03	4·1	15:09	7·9	21:44	3·8	13	W.	4:34	7·3	9:12	6·6	14:17	8·6	22:06	2·1			
14	Tu.	3:48	7·3	9:42	4·8	15:34	8·0	22:29	3·3	14	Th.	7:08	7·4	9:52	7·1	14:34	8·6	22:47	2·0			
15	W.	4:57	7·0	10:21	5·5	16:00	8·2	23:15	3·0	15	F.	8:48	7·6	10:34	7·5	14:44	8·5	23:31	2·0			
16	Th.	6:12	6·8	11:00	6·2	16:25	8·2	.....	.....	16	Sa.	.....	.....	.....	.....	14:50	8·4	.....	.....			
17	F.	0:05	2·8	.....	.....	.....	.....	16:46	8·1	17	S.	0:18	2·2	.....	.....	14:50	8·2	.....	.....			
18	Sa.	0:58	2·8	.....	.....	.....	.....	16:29	8·0	18	M.	1:06	2·4	12:01	8·2	.....	.....	.....	.....			
19	S.	1:52	2·8	.....	.....	.....	.....	16:31	7·9	19	Tu.	1:55	2·7	12:22	8·1	.....	.....	.....	.....			
20	M.	2:45	2·8	.....	.....	.....	.....	13:42	7·8	20	W.	2:45	3·1	12:43	8·0	.....	.....	.....	.....			
21	Tu.	3:40	3·0	.....	.....	.....	.....	14:07	7·9	21	Th.	3:36	3·6	12:30	7·9	20:12	6·3	21:48	6·4			
22	W.	4:36	3·1	14:36	7·8	20:36	7·0	22:12	7·1	22	F.	4:27	4·0	11:48	7·9	19:42	5·9	23:12	6·4			
23	Th.	5:29	3·2	14:51	7·6	20:08	6·7	23:10	7·1	23	Sa.	5:17	4·5	12:08	8·0	19:08	5·2	.....	.....			
24	F.	6:17	3·4	14:00	7·4	19:48	6·2	.....	.....	24	S.	0:24	6·6	6:05	4·9	12:28	8·1	19:28	4·3			
25	Sa.	0:07	7·1	7:01	3·6	13:38	7·5	20:00	5·5	25	M.	1:24	6·8	6:49	5·3	12:47	8·3	19:54	3·4			
26	S.	1:03	7·2	7:41	3·9	14:04	7·6	20:20	4·8	26	Tu.	2:21	7·1	7:31	5·8	13:07	8·6	20:27	2·5			
27	M.	1:58	7·3	8:17	4·2	14:19	7·7	20:50	4·0	27	W.	3:19	7·4	8:12	6·3	13:28	8·9	21:06	1·7			
28	Tu.	2:54	7·3	8:52	4·7	14:34	7·9	21:27	3·2	28	Th.	4:22	7·5	8:52	6·8	13:49	9·1	21:50	1·1			
29	W.	3:54	7·3	9:26	5·3	14:52	8·2	22:09	2·6	29	F.	5:30	7·6	9:33	7·2	14:09	9·3	22:37	0·8			
30	Th.	5:00	7·2	10:01	5·9	15:12	8·4	22:57	2·1	30	Sa.	6:56	7·8	10:18	7·6	14:31	9·2	23:26	0·7			
										31	S.	9:00	8·0	11:16	7·9	14:58	9·1	.....	.....			

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours, from midnight to midnight. The figures for height serve to distinguish High Water from Low Water. Where blanks occur in the tables, the tide rises or falls continuously during two successive tidal periods without turning.

The HEIGHT is in feet and tenths of a foot above the average level of lower Low Water.

ESQUIMALT.—To find the depth of water on the sill of the Dry Dock at any tide, add 19·0 feet to the height of High Water as above given. TIDAL DIFFERENCES for Fuca and Haro straits are given on page 5.

		NOVEMBER.										DECEMBER.							
Date.	Day.	Time. H't.		Time. H't.		Time. H't.		Time. H't.		Date.	Day.	Time. H't.		Time. H't.		Time. H't.		Time. H't.	
		H. M. FT.	H. M. FT.	H. M. FT.	H. M. FT.	H. M. FT.	H. M. FT.	H. M. FT.	H. M. FT.			H. M. FT.	H. M. FT.						
1	M.	0:18	0·9	10:00	8·2	12:27	8·0	15:34	8·6	1	W.	0:33	1·8	9:06	8·7	13:54	7·3	16:06	7·4
2	Tu.	1:11	1·4	10:36	8·3	13:51	7·8	16:18	8·0	2	Th.	1:23	2·8	9:26	8·8	.....	.....	.....	.....
3	W.	2:03	2·1	10:48	8·3	.....	.....	.....	.....	3	F.	2:12	4·0	9:48	8·9	17:06	5·5	21:54	6·1
4	Th.	2:55	3·0	10:54	8·3	18:24	6·4	21:18	6·6	4	Sa.	3:01	5·1	10:11	9·0	17:49	4·6	.....	.....
5	F.	3:48	3·9	11:11	8·4	18:17	5·5	23:06	6·4	5	S.	1:30	6·4	3:51	6·2	10:35	9·1	18:29	3·7
6	Sa.	4:42	4·9	11:32	8·5	18:46	4·5	.....	.....	6	M.	.....	.....	.....	.....	11:01	9·3	19:07	2·9
7	S.	1:00	6·6	5:36	5·7	11:56	8·7	19:18	3·6	7	Tu.	.....	.....	.....	.....	11:28	9·4	19:42	2·2
8	M.	3:27	7·1	6:30	6·5	12:18	8·8	19:53	2·7	8	W.	.....	.....	.....	.....	11:54	9·5	20:14	1·7
9	Tu.	4:42	7·5	7:22	7·1	12:39	9·1	20:30	2·1	9	Th.	6:09	8·7	7:36	8·7	12:16	9·6	20:45	1·4
10	W.	5:44	7·9	8:08	7·6	12:59	9·2	21:08	1·6	10	F.	7:00	8·8	8:21	8·8	12:30	9·5	21:17	1·3
11	Th.	6:39	8·1	8:50	7·9	13:14	9·2	21:46	1·4	11	Sa.	7:38	8·9	9:09	8·8	12:40	9·4	21:52	1·3
12	F.	7:33	8·3	9:31	8·2	13:18	9·1	22:23	1·4	12	S.	8:10	8·9	10:00	8·7	12:52	9·1	22:30	1·6
13	Sa.	8:31	8·4	10:18	8·4	13:24	9·0	23:01	1·5	13	M.	8:40	8·8	10:56	8·6	13:12	8·8	23:09	2·0
14	S.	9:36	8·5	11:12	8·5	13:34	8·8	23:40	1·9	14	Tu.	9:11	8·7	12:00	8·4	13:35	8·4	23:47	2·5
15	M.	10:18	8·6	12:21	8·5	13:48	8·5	.....	.....	15	W.	9:34	8·5	.....	.....	.....	.....	.....	.....
16	Tu.	0:20	2·3	10:48	8·5	.....	.....	.....	.....	16	Th.	0:22	3·2	8:36	8·5	.....	.....	.....	.....
17	W.	1:02	2·8	11:00	8·4	.....	.....	.....	.....	17	F.	0:53	3·9	8:54	8·6	.....	.....	.....	.....
18	Th.	1:46	3·4	10:12	8·3	.....	.....	.....	.....	18	Sa.	1:16	4·6	9:13	8·7	17:30	5·6	21:30	5·8
19	F.	2:31	4·1	10:23	8·4	20:00	5·9	21:30	5·9	19	S.	1:21	5·3	9:34	8·9	17:21	4·7	23:00	6·0
20	Sa.	3:14	4·8	10:42	8·5	18:30	5·3	23:18	6·0	20	M.	0:36	5·9	9:57	9·2	17:27	3·8	.....	.....
21	S.	3:54	5·5	11:03	8·6	18:36	4·4	.....	.....	21	Tu.	.....	.....	10:22	9·5	18:24	2·7	.....	.....
22	M.	0:36	6·3	4:36	6·1	11:25	8·9	19:00	3·4	22	W.	.....	.....	10:50	9·9	19:04	1·7	.....	.....
23	Tu.	1:46	6·7	5:26	6·7	11:48	9·2	19:34	2·3	23	Th.	.....	.....	.....	.....	11:23	10·2	19:45	0·9
24	W.	4:38	7·3	6:24	7·2	12:12	9·6	20:12	1·4	24	F.	.....	.....	.....	.....	12:03	10·4	20:27	0·3
25	Th.	5:32	7·7	7:21	7·6	12:37 <sup>e</sup>	9·8	20:51	0·7	25	Sa.	6:13	8·4	8:03	8·3	12:46	10·3	21:10	0·1
26	F.	6:10	8·0	8:16	7·9	13:04	10·0	21:31	0·2	26	S.	6:28	8·5	8:58	8·2	13:30	10·0	21:53	0·3
27	Sa.	6:55	8·2	9:11	8·1	13:35	9·9	22:13	0·1	27	M.	6:39	8·6	9:58	8·0	14:16	9·5	22:36	0·8
28	S.	7:45	8·4	10:09	8·2	14:10	9·6	22:57	0·4	28	Tu.	6:52	8·7	11:03	7·6	15:06	8·8	23:19	1·6
29	M.	8:20	8·6	11:15	8·2	14:48	9·1	23:44	1·0	29	W.	7:15	8·8	12:14	7·2	16:06	7·8	.....	.....
30	Tu.	8:45	8·6	12:31	7·9	15:27	8·3	.....	.....	30	Th.	0:03	2·7	7:43	8·9	13:35	6·5	17:44	6·9
										31	F.	0:48	3·9	8:14	9·0	15:00	5·6	20:00	6·3

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours, from midnight to midnight. The figures for height serve to distinguish High Water from Low Water. Where blanks occur in the tables, the tide rises or falls continuously during two successive tidal periods without turning.

The HEIGHT is in feet and tenths of a foot, above the average level of lower Low Water.

ESQUIMALT.—To find the depth of water on the sill of the Dry Dock at any tide, add 19·0 feet to the height of High Water as above given. TIDAL DIFFERENCES for Fuca and Haro straits are given on page 5.

Date.	Day.	JANUARY.								FEBRUARY.									
		Time. H't.		Time. H't.		Time. H't.		Time. H't.		Date.		Day.		Time. H't.		Time. H't.		Time. H't.	
		H. M. FT.	H. M. FT.	H. M. FT.	H. M. FT.	H. M. FT.	H. M. FT.	H. M. FT.	H. M. FT.	H. M. FT.	H. M. FT.	H. M. FT.	H. M. FT.						
1	Th.	2:45	10·3	7:01	8·9	12:48	13·4	21:01	2·4	1	S.	4:51	12·0	9:49	9·4	14:24	12·0	22:27	0·9
2	F.	4:06	11·2	8:26	9·4	13:34	13·2	21:54	1·3	2	M.	5:45	12·5	10:55	8·9	15:30	11·7	23:15	0·8
3	Sa.	5:13	12·0	9:48	9·6	14:25	12·9	22:43	0·6	3	Tu.	6:26	12·9	11:50	8·2	16:35	11·5	23:59	1·0
4	S.	6:10	12·7	11:02	9·6	15:22	12·6	23:30	0·1	4	W.	7:00	13·1	12:39	7·3	17:39	11·2	.....	.....
5	M.	6:57	13·3	12:06	9·3	16:24	12·2	.....	.....	5	Th.	0:39	1·5	7:33	13·2	13:26	6·5	18:41	11·0
6	Tu.	0:15	0·0	7:37	13·7	13:01	8·7	17:28	11·7	6	F.	1:17	2·2	8:05	13·2	14:11	5·7	19:42	10·7
7	W.	0:58	0·3	8:14	13·9	13:51	8·0	18:30	11·1	7	Sa.	1:54	3·0	8:36	13·0	14:55	5·0	20:42	10·3
8	Th.	1:39	0·9	8:49	13·9	14:40	7·2	19:33	10·6	8	S.	2:30	4·0	9:06	12·8	15:39	4·5	21:43	10·0
9	F.	2:19	1·8	9:23	13·7	15:30	6·4	20:38	10·0	9	M.	3:08	5·1	9:37	12·5	16:25	4·2	22:47	9·8
10	Sa.	2:58	2·9	9:56	13·5	16:23	5·8	21:48	9·5	10	Tu.	3:48	6·2	10:09	12·1	17:16	4·0	23:57	9·7
11	S.	3:37	4·2	10:30	13·1	17:19	5·1	23:03	9·1	11	W.	4:34	7·3	10:42	11·7	18:14	3·9	.....	.....
12	M.	4:18	5·5	11:05	12·8	18:20	4·6	.....	.....	12	Th.	1:11	9·8	5:32	8·2	11:18	11·3	19:16	3·6
13	Tu.	0:23	9·0	5:04	6·8	11:41	12·5	19:20	4·0	13	F.	2:22	10·2	6:44	8·9	12:00	11·0	20:16	3·3
14	W.	1:45	9·3	6:01	8·0	12:18	12·1	20:14	3·5	14	Sa.	3:29	10·8	8:16	9·2	12:50	10·7	21:08	3·0
15	Th.	3:05	10·0	7:12	8·9	12:56	11·9	21:03	2·9	15	S.	4:27	11·2	9:32	9·1	13:46	10·5	21:52	2·7
16	F.	4:16	10·7	8:31	9·4	13:35	11·6	21:46	2·5	16	M.	5:13	11·7	10:28	8·8	14:43	10·4	22:31	2·5
17	Sa.	5:14	11·4	9:44	9·6	14:15	11·3	22:25	2·2	17	Tu.	5:50	11·9	11:11	8·4	15:38	10·5	23:09	2·5
18	S.	6:00	12·0	10:49	9·7	14:56	11·2	23:02	2·0	18	W.	6:21	12·0	11:49	7·8	16:31	10·7	23:46	2·5
19	M.	6:36	12·4	11:40	9·5	15:38	11·0	23:37	1·8	19	Th.	6:47	12·1	12:26	7·2	17:23	10·8	.....	.....
20	Tu.	7:08	12·6	12:21	9·1	16:22	10·9	.....	.....	20	F.	0:22	2·8	7:10	12·1	13:02	6·4	18:15	10·9
21	W.	0:11	1·8	7:38	12·8	12:59	8·7	17:10	10·8	21	Sa.	0:57	3·2	7:32	12·1	13:39	5·6	19:08	11·0
22	Th.	0:44	1·9	8:06	12·8	13:35	8·1	18:00	10·8	22	S.	1:33	3·8	7:55	12·1	14:18	4·8	20:04	10·7
23	F.	1:16	2·2	8:32	12·7	14:10	7·4	18:52	10·7	23	M.	2:10	4·6	8:20	12·2	15:01	4·1	21:06	10·7
24	Sa.	1:49	2·7	8:56	12·6	14:47	6·6	19:49	10·4	24	Tu.	2:49	5·6	8:48	12·3	15:48	3·5	22:17	10·5
25	S.	2:24	3·4	9:19	12·6	15:30	5·9	20:56	10·1	25	W.	3:33	6·7	9:21	12·2	16:43	3·2	23:38	10·3
26	M.	3:01	4·4	9:43	12·7	16:20	5·2	22:12	9·8	26	Th.	4:25	7·8	10:02	12·0	17:49	2·9	.....	.....
27	Tu.	3:42	5·6	10:12	12·7	17:21	4·5	23:37	9·7	27	F.	1:06	10·5	5:36	8·7	10:55	11·6	19:03	2·6
28	W.	4:29	6·9	10:47	12·7	18:29	3·7	.....	.....	28	Sa.	2:28	10·9	7:09	9·1	12:01	11·2	20:11	2·2
29	Th.	1:10	9·9	5:30	8·2	11:30	12·6	19:38	2·9	29	S.	3:33	11·4	8:41	8·8	13:16	10·9	21:12	1·9
30	F.	2:36	10·5	6:56	9·1	12:22	12·4	20:39	2·1										
31	Sa.	3:51	11·2	8:31	9·6	13:21	12·3	21:35	1·4										

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours, from midnight to midnight. The figures for height serve to distinguish High Water from Low Water.

The HEIGHT is in feet and tenths of a foot, above the Admiralty datum to which the soundings are referred on the chart of Vancouver harbour.

The tide in English bay and False creek is practically the same as in the Sand Heads tables, both in time and height. Data for Burrard inlet in relation to Vancouver, are given on page 5.

		MARCH.										APRIL.							
Date.	Day.	Time. H't.		Time. H't.		Time. H't.		Time. H't.		Date.	Day.	Time. H't.		Time. H't.		Time. H't.		Time. H't.	
		H. M.	FT.	H. M.	FT.	H. M.	FT.	H. M.	FT.			H. M.	FT.	H. M.	FT.	H. M.	FT.			H. M.	FT.
1	<b>M.</b>	4:24	11·8	9:54	8·2	14:36	10·8	22:06	1·9	1	<b>Th.</b>	4:47	11·8	11:18	4·3	17:03	10·4	23:12	4·4
2	<b>Tu.</b>	5:05	12·1	10:51	7·2	15:48	10·8	22:54	2·1	2	<b>F.</b>	5:18	11·8	11:55	3·5	17:58	10·8	23:53	5·1
3	<b>W.</b>	5:41	12·3	11:38	6·3	16:52	10·8	23:37	2·5	3	<b>Sa.</b>	5:47	11·6	12:31	2·9	18:50	11·1	.....	.....
4	<b>Th.</b>	6:14	12·3	12:20	5·4	17:51	10·9	.....	.....	4	<b>So.</b>	0:32	5·7	6:14	11·5	13:06	2·4	19:40	11·3
5	<b>F.</b>	0:17	3·1	6:46	12·3	13:00	4·6	18:47	11·0	5	<b>M.</b>	1:10	6·3	6:39	11·3	13:41	2·2	20:29	11·4
6	<b>Sa.</b>	0:55	3·8	7:16	12·2	13:39	3·9	19:41	10·9	6	<b>Tu.</b>	1:48	6·8	7:03	11·1	14:17	2·0	21:18	11·4
7	<b>So.</b>	1:32	4·6	7:45	12·0	14:17	3·5	20:34	10·8	7	<b>W.</b>	2:27	7·3	7:28	10·8	14:53	2·1	22:08	11·3
8	<b>M.</b>	2:08	5·4	8:12	11·8	14:55	3·2	21:28	10·7	8	<b>Th.</b>	3:09	7·7	7:54	10·5	15:30	2·3	23:00	11·2
9	<b>Tu.</b>	2:45	6·2	8:38	11·6	15:35	3·1	22:26	10·5	9	<b>F.</b>	3:57	8·0	8:23	10·0	16:09	2·7	23:54	11·1
10	<b>W.</b>	3:25	7·0	9:05	11·2	16:18	3·2	23:29	10·4	10	<b>Sa.</b>	5:01	8·2	9:06	9·5	16:54	3·0	.....	.....
11	<b>Th.</b>	4:14	7·7	9:35	10·8	17:05	3·3	.....	.....	11	<b>So.</b>	0:47	11·1	6:19	8·1	10:12	8·9	17:51	3·5
12	<b>F.</b>	0:37	10·4	5:16	8·3	10:12	10·3	18:01	3·5	12	<b>M.</b>	1:37	11·1	7:35	7·7	11:50	8·6	18:56	3·9
13	<b>Sa.</b>	1:44	10·6	6:33	8·6	11:06	9·8	19:06	3·6	13	<b>Tu.</b>	2:21	11·2	8:38	6·9	13:19	8·7	20:03	4·2
14	<b>So.</b>	2:42	10·8	8:00	8·5	12:16	9·5	20:10	3·5	14	<b>W.</b>	2:59	11·3	9:28	6·1	14:38	9·1	21:01	4·5
15	<b>M.</b>	3:31	11·1	9:09	8·1	13:33	9·5	21:04	3·4	15	<b>Th.</b>	3:32	11·4	10:08	5·2	15:46	9·8	21:53	4·9
16	<b>Tu.</b>	4:10	11·3	9:58	7·5	14:43	9·7	21:50	3·4	16	<b>F.</b>	4:02	11·5	10:46	4·2	16:45	10·5	22:40	5·3
17	<b>W.</b>	4:42	11·5	10:38	6·8	15:46	10·0	22:33	3·5	17	<b>Sa.</b>	4:31	11·7	11:23	3·2	17:40	11·1	23:26	5·9
18	<b>Th.</b>	5:10	11·5	11:16	6·0	16:42	10·5	23:15	3·8	18	<b>So.</b>	4:59	11·8	12:01	2·2	18:34	11·7	.....	.....
19	<b>F.</b>	5:37	11·6	11:53	5·1	17:36	11·0	23:56	4·1	19	<b>M.</b>	0:12	6·4	5:29	11·8	12:41	1·4	19:29	12·0
20	<b>Sa.</b>	6:03	11·7	12:31	4·2	18:31	11·4	.....	.....	20	<b>Tu.</b>	0:59	6·9	6:01	11·9	13:25	0·8	20:26	12·2
21	<b>So.</b>	0:36	4·7	6:28	11·8	13:10	3·4	19:27	11·5	21	<b>W.</b>	1:47	7·4	6:36	11·7	14:12	0·6	21:24	12·3
22	<b>M.</b>	1:16	5·3	6:54	11·9	13:50	2·7	20:24	11·5	22	<b>Th.</b>	2:37	7·8	7:17	11·4	15:02	0·7	22:23	12·2
23	<b>Tu.</b>	1:57	6·1	7:22	12·0	14:33	2·2	21:22	11·5	23	<b>F.</b>	3:38	8·1	8:09	10·8	15:54	1·1	23:21	12·1
24	<b>W.</b>	2:40	6·8	7:54	11·8	15:20	1·9	22:22	11·4	24	<b>Sa.</b>	4:45	8·0	9:14	9·9	16:51	1·8	.....	.....
25	<b>Th.</b>	3:30	7·6	8:34	11·5	16:13	1·9	23:28	11·2	25	<b>So.</b>	0:17	12·0	6:11	7·7	10:34	9·1	17:53	2·6
26	<b>F.</b>	4:34	8·2	9:25	11·0	17:17	2·2	.....	.....	26	<b>M.</b>	1:09	12·0	7:34	6·9	12:11	8·6	18:57	3·5
27	<b>Sa.</b>	0:39	11·2	5:54	8·5	10:32	10·3	18:30	2·4	27	<b>Tu.</b>	1:56	11·9	8:41	5·8	13:43	8·7	20:02	4·2
28	<b>So.</b>	1:46	11·3	7:24	8·2	11:56	9·7	19:44	2·6	28	<b>W.</b>	2:38	11·9	9:34	4·6	15:04	9·2	21:02	5·0
29	<b>M.</b>	2:45	11·6	8:51	7·4	13:29	9·5	20:49	2·9	29	<b>Th.</b>	3:15	11·8	10:17	3·6	16:12	9·8	21:54	5·8
30	<b>Tu.</b>	3:34	11·7	9:54	6·3	14:54	9·7	21:43	3·3	30	<b>Fr.</b>	3:48	11·7	10:54	2·8	17:13	10·4	22:41	6·4
31	<b>W.</b>	4:14	11·9	10:39	5·3	16:03	10·0	22:29	3·8										

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours, from midnight to midnight. The figures for height serve to distinguish High Water from Low Water.

The HEIGHT is in feet and tenths of a foot above the Admiralty datum to which the soundings are referred on the chart of Vancouver harbour.

The tide in English bay and False creek is practically the same as in the Sand Heads tables, both in time and height. Data for Burrard inlet in relation to Vancouver, are given on page 5.

## TIDE TABLES.—VANCOUVER HARBOUR, B.C.—1920.

Date.	Day.	MAY.								JUNE.								
		Time. H't.		Time. H't.		Time. H't.		Time. H't.										
		H. M.	FT.	H. M.	FT.	H. M.	FT.	H. M.	FT.	H. M.	FT.							
1	Sa.	4:18	11·6	11:30	2·1	18:08	10·9	23:25	7·0	1	Tu.	4:21	11·0	12:13	1·1	19:39	12·0	.....
2	Su.	4:46	11·3	12:05	1·7	18:57	11·3	.....	....	2	W.	0:38	8·8	4:50	10·8	12:45	1·0	20:17 12·2
3	M.	0:08	7·5	5:12	11·1	12:39	1·4	19:44	11·7	3	Th.	1:22	8·8	5:21	10·5	13:16	1·0	20:52 12·3
4	Tu.	0:50	7·8	5:37	10·9	13:12	1·3	20:29	11·9	4	F.	2:05	8·6	5:55	10·2	13:47	1·1	21:26 12·3
5	W.	1:31	8·0	6:01	10·7	13:44	1·3	21:12	12·0	5	Sa.	2:49	8·3	6:34	9·9	14:19	1·4	22:00 12·2
6	Th.	2:13	8·2	6:27	10·4	14:16	1·4	21:54	11·9	6	Su.	3:34	8·0	7:18	9·5	14:53	2·0	22:35 12·1
7	F.	2:57	8·2	6:57	10·0	14:49	1·7	22:35	11·8	7	M.	4:22	7·5	8:15	9·0	15:30	2·7	23:09 12·0
8	Sa.	3:46	8·1	7:34	8·6	15:24	2·1	23:16	11·7	8	Tu.	5:16	7·0	9:38	8·6	16:12	3·6	23:43 11·9
9	Su.	4:44	8·0	8:23	9·0	16:02	2·7	23:58	11·6	9	W.	6:15	6·2	11:19	8·3	17:02	4·6	.....
10	M.	5:50	7·6	9:36	8·5	16:49	3·4	.....	....	10	Th.	0:16	11·9	7:15	5·2	12:55	8·6	18:00 5·8
11	Tu.	0:39	11·6	7:01	6·9	11:26	8·2	17:51	4·2	11	F.	0:49	12·0	8:11	4·1	14:18	9·1	19:09 6·8
12	W.	1:18	11·5	8:04	6·0	13:09	8·4	19:01	5·0	12	Sa.	1:23	12·2	9:02	2·9	15:32	9·9	20:26 7·7
13	Th.	1:54	11·6	8:54	5·0	14:32	9·0	20:06	5·7	13	Su.	2:00	12·4	9:51	1·8	16:38	10·8	21:36 8·3
14	F.	2:27	11·8	9:36	3·8	15:39	9·8	21:07	6·4	14	M.	2:41	12·6	10:38	0·8	17:39	11·6	22:40 8·7
15	Sa.	2:59	12·0	10:17	2·7	16:40	10·6	22:05	7·0	15	Tu.	3:26	12·5	11:24	0·0	18:36	12·3	23:39 8·8
16	Su.	3:31	12·1	10:57	1·7	17:39	11·4	23:02	7·6	16	W.	4:14	12·2	12:09	-0·5	19:29	12·9	.....
17	M.	4:05	12·2	11:38	0·8	18:37	12·0	23:57	8·0	17	Th.	0:37	8·7	5:05	11·9	12:53	-0·6	20:16 13·2
18	Tu.	4:42	12·1	12:21	0·0	19:34	12·5	.....	....	18	F.	1:34	8·3	6:00	11·4	13:37	-0·4	20:59 13·4
19	W.	0:51	8·3	5:23	12·0	13:06	-0·3	20:29	12·9	19	Sa.	2:30	7·7	7:00	10·8	14:20	0·3	21:40 13·3
20	Th.	1:44	8·3	6:09	11·6	13:52	-0·3	21:20	13·0	20	Su.	3:27	7·1	8:08	9·9	15:04	1·2	22:20 13·2
21	F.	2:39	8·2	7:01	11·0	14:39	0·0	22:09	13·0	21	M.	4:27	6·4	9:25	9·2	15:49	2·5	22:59 12·9
22	Sa.	3:39	7·9	8:00	10·2	15:28	0·8	22:54	12·9	22	Tu.	5:30	5·6	10:46	8·7	16:35	3·9	23:38 12·6
23	Su.	4:45	7·4	9:13	9·3	16:19	1·9	23:38	12·7	23	W.	6:35	4·8	12:08	8·4	17:24	5·4	.....
24	M.	5:59	6·7	10:41	8·6	17:14	3·2	.....	....	24	Th.	0:16	12·2	7:36	3·9	13:32	8·7	18:22 6·7
25	Tu.	0:23	12·4	7:19	5·7	12:16	8·2	18:14	4·4	25	F.	0:53	12·0	8:32	3·0	14:55	9·2	19:31 7·7
26	W.	1:07	12·2	8:21	4·6	13:45	8·5	19:16	5·6	26	Sa.	1:29	11·8	9:21	2·4	16:14	10·0	20:42 8·5
27	Th.	1:48	12·0	9:09	3·5	15:05	9·0	20:19	6·6	27	Su.	2:04	11·6	10:03	1·9	17:18	10·8	21:48 8·9
28	F.	2:24	11·9	9:51	2·6	16:16	9·8	21:18	7·4	28	M.	2:40	11·3	10:40	1·5	18:07	11·4	22:48 9·1
29	Sa.	2:55	11·7	10:30	2·0	17:19	10·5	22:12	8·0	29	Tu.	3:15	11·1	11:15	1·3	18:48	11·9	23:41 9·1
30	Su.	3:24	11·5	11:06	1·5	18:13	11·2	23:03	8·5	30	W.	3:49	10·8	11:49	1·2	19:25	12·1	.....
31	M.	3:53	11·3	11:40	1·2	18:59	11·7	23:52	8·7									

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours, from midnight to midnight. The figures for height serve to distinguish High Water from Low Water.

The HEIGHT is in feet and tenths of a foot, above the Admiralty datum to which the soundings are referred on the chart of Vancouver harbour.

The tide in English bay and False creek is practically the same as in the Sand Heads tables, both in time and height. Data for Burrard inlet in relation to Vancouver, are given on page 5.

Date.	Day.	JULY.				Date.	Day.	AUGUST.			
		Time. H't.	Time. H't.	Time. H't.	Time. H't.			Time. H't.	Time. H't.	Time. H't.	Time. H't.
1	Th.	H. M. FT. 0:26 9·0	H. M. FT. 4:24 10·6	H. M. FT. 12:22 1·2	H. M. FT. 19:59 12·4	1	S.	H. M. FT. 1:19 7·3	H. M. FT. 5:57 10·3	H. M. FT. 13:05 2·2	H. M. FT. 20:11 11·9
2	F.	1:07 8·7	5:02 10·4	12:54 1·2	20:30 12·4	2	M.	1:54 6·7	6:48 10·3	13:37 2·7	20:33 11·8
3	Sa.	1:47 8·3	5:45 10·2	13:25 1·4	20:59 12·4	3	Tu.	2:30 6·1	7:43 10·2	14:10 3·3	20:54 11·8
4	S.	2:26 7·8	6:31 10·0	13:57 1·8	21:26 12·3	4	W.	3:08 5·4	8:42 10·0	14:45 4·1	21:16 11·9
5	M.	3:06 7·3	7:25 9·7	14:30 2·3	21:52 12·1	5	Th.	3:50 4·8	9:48 9·8	15:23 5·2	21:40 12·0
6	Tu.	3:48 6·8	8:28 9·3	15:05 3·1	22:17 12·0	6	F.	4:41 4·2	11:03 9·6	16:05 6·3	22:11 12·0
7	W.	4:33 6·1	9:42 9·1	15:43 4·1	22:44 12·1	7	Sa.	5:43 3·6	12:26 9·6	16:59 7·4	22:54 12·0
8	Th.	5:27 5·3	11:08 8·9	16:27 5·4	23:14 12·2	8	S.	6:53 3·0	13:54 10·0	18:14 8·5	23:48 11·9
9	F.	6:27 4·5	12:36 8·9	17:19 6·6	23:48 12·2	9	M.	8:02 2·3	15:11 10·6	19:46 8·9	.....
10	Sa.	7:00 3·5	14:03 9·4	18:26 7·8	.....	10	Tu.	0:48 11·8	9:03 1·6	16:13 11·2	21:12 8·8
11	S.	0:28 12·4	8:30 2·5	15:22 10·2	19:51 8·6	11	W.	1:54 11·6	9:58 1·1	17:06 11·7	22:24 8·3
12	M.	1:15 12·5	9:26 1·4	16:33 11·0	21:17 9·0	12	Th.	3:04 11·4	10:48 0·9	17:52 12·1	23:24 7·5
13	Tu.	2:06 12·4	10:18 0·7	17:35 11·8	22:30 9·1	13	F.	4:15 11·3	11:34 0·9	18:30 12·4	.....
14	W.	3:01 12·2	11:07 0·1	18:28 12·4	23:32 8·7	14	Sa.	0:15 6·7	5:22 11·2	12:17 1·3	19:05 12·5
15	Th.	4:00 12·0	11:53 -0·2	19:14 12·9	.....	15	S.	1:00 5·8	6:25 11·0	12:59 2·0	19:39 12·5
16	F.	0:27 8·2	5:03 11·6	12:36 -0·1	19:53 13·1	16	M.	1:44 5·0	7:25 10·9	13:40 2·8	20:12 12·4
17	Sa.	1:20 7·4	6:07 11·2	13:18 0·4	20:28 13·1	17	Tu.	2:28 4·2	8:24 10·7	14:20 3·8	20:44 12·2
18	S.	2:12 6·6	7:12 10·7	13:59 1·2	21:02 13·1	18	W.	3:13 3·8	9:22 10·4	14:59 4·8	21:15 11·9
19	M.	3:03 5·8	8:18 10·1	14:39 2·3	21:35 12·9	19	Th.	3:59 3·5	10:22 10·1	15:39 5·9	21:47 11·5
20	Tu.	3:55 5·1	9:26 9·7	15:20 3·6	22:08 12·6	20	F.	4:48 3·4	11:28 9·9	16:23 6·9	22:22 11·2
21	W.	4:49 4·6	10:36 9·2	16:04 4·9	22:42 12·2	21	Sa.	5:45 3·4	12:40 9·9	17:20 7·8	23:00 10·8
22	Th.	5:47 4·1	11:52 9·0	16:51 6·2	23:18 11·9	22	S.	6:49 3·3	13:54 10·1	18:34 8·4	23:47 10·3
23	F.	6:48 3·6	13:12 9·2	17:44 7·3	23:56 11·6	23	M.	7:52 3·2	15:00 10·5	20:01 8·6	.....
24	Sa.	7:50 3·2	14:31 9·6	18:52 8·3	.....	24	Tu.	0:44 10·0	8:48 3·0	15:56 10·9	21:16 8·4
25	S.	0:36 11·3	8:46 2·7	15:45 10·2	20:14 8·8	25	W.	1:47 9·8	9:36 2·8	16:43 11·3	22:13 8·0
26	M.	1:20 11·0	9:34 2·3	16:46 10·9	21:30 9·0	26	Th.	2:50 9·8	10:17 2·7	17:21 11·4	22:56 7·5
27	Tu.	2:08 10·7	10:14 2·0	17:35 11·4	22:32 8·9	27	F.	3:48 9·9	10:55 2·7	17:54 11·5	23:36 7·0
28	W.	2:55 10·6	10:51 1·8	18:15 11·7	23:22 8·6	28	Sa.	4:39 10·1	11:32 2·8	18:23 11·5	.....
29	Th.	3:40 10·4	11:26 1·8	18:48 11·9	.....	29	S.	0:12 6·4	5:27 10·4	12:08 3·1	18:49 11·4
30	F.	0:05 8·3	4:24 10·3	12:00 1·8	19:18 12·0	30	M.	0:47 5·8	6:14 10·7	12:43 3·5	19:12 11·4
31	Sa.	0:43 7·8	5:09 10·3	12:33 1·9	19:46 12·0	31	Tu.	1:21 5·1	7:02 10·8	13:17 4·0	19:32 11·5

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours, from midnight to midnight. The figures for height serve to distinguish High Water from Low Water.

The HEIGHT is in feet and tenths of a foot, above the Admiralty datum to which the soundings are referred on the chart of Vancouver harbour.

The tide in English bay and False creek is practically the same as in the Sand Head tables, both in time and height. Data for Burrard inlet in relation to Vancouver, are given on page 5.

## TIDE TABLES.—VANCOUVER HARBOUR, B.C.—1920.

Date.	Day.	SEPTEMBER.								OCTOBER.									
		Time. H't.		Time. H't.		Time. H't.		Time. H't.		Time. H't.		Time. H't.		Time. H't.		Time. H't.			
		H. M. FT.	H. M. FT.																
1	W.	1:56	4·3	7:52	10·9	13:52	4·7	19:53	11·6	1	F.	2:07	2·0	9:00	11·7	14:19	7·1	19:21	11·6
2	Th.	2:33	3·7	8:48	10·8	14:29	5·6	20:16	11·7	2	Sa.	2:50	1·8	9:58	11·7	15:08	7·7	19:56	11·3
3	F.	3:14	3·2	9:50	10·7	15:10	6·5	20:42	11·7	3	S.	3:38	1·8	10:59	11·6	16:06	8·2	20:46	10·9
4	Sa.	4:02	2·9	11:00	10·5	16:01	7·3	21:20	11·5	4	M.	4:34	2·0	12:04	11·4	17:21	8·4	21:54	10·3
5	S.	5:02	2·7	12:18	10·4	17:08	8·2	22:12	11·2	5	Tu.	5:40	2·5	13:08	11·4	18:46	8·1	23:18	9·6
6	M.	6:14	2·6	13:39	10·7	18:30	8·6	23:24	10·8	6	W.	6:54	2·9	14:06	11·6	20:09	7·3	...	...
7	Tu.	7:31	2·5	14:43	11·0	20:01	8·4	.....	.....	7	Th.	0:56	9·4	8:04	3·3	14:56	11·8	21:18	6·2
8	W.	0:45	10·5	8:39	2·2	15:37	11·4	21:18	7·7	8	F.	2:30	9·6	9:07	3·8	15:39	11·9	22:09	5·0
9	Th.	2:08	10·5	9:33	2·2	16:22	11·7	22:21	6·8	9	Sa.	3:46	10·1	10:02	4·3	16:15	11·9	22:52	4·0
10	F.	3:27	10·6	10:29	2·4	17:03	12·0	23:11	5·8	10	S.	4:50	10·7	10:51	5·6	16:46	11·8	23:32	3·1
11	Sa.	4:36	10·8	11:15	2·8	17:41	12·0	23:55	4·8	11	M.	5:48	11·1	11:36	5·6	17:16	11·7	...	...
12	S.	5:36	11·0	11:59	3·3	18:15	12·0	.....	.....	12	Tu.	0:09	2·4	6:42	11·5	12:18	6·2	17:45	11·5
13	M.	0:36	3·9	6:32	11·2	12:40	4·0	18:46	11·8	13	W.	0:45	2·0	7:33	11·8	12:58	6·8	18:13	11·3
14	Tu.	1:15	3·3	7:27	11·3	13:19	4·8	19:15	11·7	14	Th.	1:20	1·7	8:22	12·0	13:37	7·3	18:40	11·1
15	W.	1:53	2·8	8:21	11·2	13:57	5·5	19:43	11·5	15	F.	1:55	1·7	9:10	12·0	14:18	7·6	19:08	10·8
16	Th.	2:32	2·6	9:16	11·1	14:35	6·2	20:12	11·2	16	Sa.	2:31	1·8	9:57	12·0	15:04	7·9	19:38	10·3
17	F.	3:12	2·5	10:12	11·0	15:15	7·0	20:42	10·8	17	S.	3:09	2·1	10:45	11·8	15:56	8·1	20:12	9·8
18	Sa.	3:54	2·7	11:10	10·8	16:04	7·5	21:16	10·3	18	M.	3:49	2·6	11:35	11·8	16:59	8·2	20:58	9·2
19	S.	4:41	3·0	12:11	10·8	17:06	8·0	21:58	9·8	19	Tu.	4:33	3·1	12:24	11·6	18:13	8·0	22:06	8·6
20	M.	5:38	3·3	13:10	10·8	18:26	8·2	22:56	9·2	20	W.	5:24	3·8	13:10	11·6	19:26	7·4	23:49	8·3
21	Tu.	6:43	3·6	14:06	11·0	19:58	8·0	.....	.....	21	Th.	6:26	4·3	13:52	11·6	20:29	6·7	...	...
22	W.	0:16	9·0	7:49	3·8	14:57	11·2	21:03	7·4	22	F.	1:19	8·5	7:34	4·8	14:30	11·6	21:17	5·8
23	Th.	1:34	8·9	8:46	3·8	15:41	11·3	21:49	6·8	23	Sa.	2:36	9·0	8:36	5·3	15:04	11·6	21:54	5·0
24	F.	2:43	9·2	9:35	3·9	16:18	11·3	22:27	6·2	24	S.	3:39	9·7	9:31	5·7	15:34	11·6	22:29	4·1
25	Sa.	3:44	9·7	10:19	4·1	16:49	11·3	23:03	5·5	25	M.	4:34	10·5	10:19	6·2	16:02	11·7	23:03	3·2
26	S.	4:38	10·2	11:00	4·4	17:17	11·3	23:38	4·7	26	Tu.	5:27	11·2	11:05	6·7	16:29	11·7	23:39	2·4
27	M.	5:30	10·8	11:39	4·8	17:41	11·3	.....	.....	27	W.	6:19	11·8	11:50	7·2	16:56	11·8	...	...
28	Tu.	0:13	4·0	6:21	11·2	12:17	5·3	18:04	11·4	28	Th.	0:18	1·6	7:12	12·2	12:36	7·7	17:25	11·9
29	W.	0:49	3·2	7:12	11·4	12:56	5·8	18:27	11·5	29	F.	1:00	1·0	8:06	12·6	13:24	8·1	17:59	11·8
30	Th.	1:27	2·5	8:05	11·7	13:36	6·4	18:52	11·6	30	Sa.	1:44	0·7	9:01	12·7	14:15	8·3	18:42	11·6
										31	S.	2:30	0·7	9:56	12·8	15:13	8·4	19:32	11·0

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours, from midnight to midnight. The figures for height serve to distinguish High Water from Low Water.

The HEIGHT is in feet and tenths of a foot above the Admiralty datum to which the soundings are referred on the chart of Vancouver harbour.

The tide in English bay and False creek is practically the same as in the Sand Heads tables, both in time and height. Data for Burrard inlet in relation to Vancouver, are given on page 5.

Date.	Day.	NOVEMBER.								Date.	Day.	DECEMBER.							
		Time. H't.			Time. H't.														
1	M.	3:18 1·1	10:50 12·7	16:19 8·3	20:34 10·3					1	W.	3:46 2·0	11:06 13·4	17:21 7·1	22:06 9·1				
2	Tu.	4:10 1·8	11:43 12·6	17:33 8·0	21:54 9·5					2	Th.	4:35 3·3	11:49 13·1	18:32 6·1	23:44 8·7				
3	W.	5:09 2·7	12:34 12·4	18:54 7·2	23:36 8·8					3	F.	5:30 4·7	12:31 12·9	19:44 4·9	.....				
4	Th.	6:17 3·8	13:22 12·3	20:10 6·0	.....					4	Sa.	1:18 8·8	6:34 6·1	13:11 12·6	20:42 3·8				
5	F.	1:16 8·8	7:27 4·7	14:05 12·2	21:08 4·7					5	S.	2:44 9·4	7:45 7·3	13:49 12·5	21:29 2·8				
6	Sa.	2:42 9·3	8:30 5·6	14:43 12·2	21:52 3·6					6	M.	4:01 10·2	8:54 8·1	14:24 12·3	22:09 2·1				
7	S.	3:54 10·0	9:26 6·4	15:18 12·1	22:31 2·7					7	Tu.	5:08 11·0	9:55 8·8	14:57 12·0	22:47 1·6				
8	M.	4:58 10·8	10:18 7·1	15:49 11·9	23:08 2·0					8	W.	6:03 11·8	10:48 9·2	15:29 11·8	23:24 1·3				
9	Tu.	5:54 11·4	11:07 7·7	16:18 11·7	23:44 1·6					9	Th.	6:48 12·3	11:37 9·4	16:00 11·5	.....				
10	W.	6:44 11·9	11:55 8·2	16:46 11·5	.....					10	F.	0:00 1·2	7:28 12·8	12:24 9·4	16:32 11·2				
11	Th.	0:19 1·3	7:32 12·3	12:42 8·5	17:15 11·2					11	Sa.	0:34 1·2	8:05 13·0	13:10 9·2	17:06 10·8				
12	F.	0:53 1·2	8:17 12·6	13:28 8·7	17:45 10·9					12	S.	1:06 1·3	8:40 13·1	13:55 9·0	17:43 10·5				
13	Sa.	1:26 1·2	9:00 12·7	14:13 8·7	18:16 10·6					13	M.	1:37 1·5	9:14 13·1	14:39 8·6	18:25 10·1				
14	S.	1:58 1·5	9:41 12·7	14:57 8·6	18:49 10·2					14	Tu.	2:07 1·9	9:47 13·0	15:24 8·2	19:12 9·7				
15	M.	2:31 1·8	10:21 12·7	15:43 8·3	19:26 9·6					15	W.	2:38 2·5	10:19 12·9	16:11 7·7	20:06 9·2				
16	Tu.	3:06 2·3	11:00 12·5	16:36 8·0	20:13 9·0					16	Th.	3:11 3·2	10:50 12·7	17:01 7·2	21:24 8·8				
17	W.	3:45 3·0	11:37 12·3	17:37 7·6	21:24 8·5					17	F.	3:47 4·1	11:20 12·5	17:54 6·5	23:00 8·6				
18	Th.	4:29 3·8	12:13 12·2	18:42 7·0	23:21 8·2					18	Sa.	4:30 5·2	11:49 12·4	18:49 5·7	.....				
19	F.	5:19 4·7	12:48 12·1	19:42 6·1	.....					19	S.	0:35 8·7	5:24 6·3	12:19 12·5	19:42 4·7				
20	Sa.	0:58 8·4	6:20 5·7	13:22 12·1	20:34 5·2					20	M.	1:58 9·3	6:30 7·5	12:50 12·6	20:33 3·6				
21	S.	2:20 9·0	7:28 6·5	13:55 12·1	21:17 4·1					21	Tu.	3:13 10·1	7:46 8·5	13:24 12·8	21:22 2·5				
22	M.	3:30 9·9	8:35 7·2	14:27 12·2	21:58 3·1					22	W.	4:20 11·0	9:00 9·1	14:02 12·9	22:10 1·5				
23	Tu.	4:31 10·8	9:38 7·9	14:59 12·4	22:38 2·1					23	Th.	5:21 11·9	10:10 9·5	14:46 12·9	22:57 0·7				
24	W.	5:27 11·6	10:37 8·4	15:33 12·5	23:19 1·2					24	F.	6:17 12·7	11:16 9·6	15:38 12·7	23:43 0·1				
25	Th.	6:21 12·3	11:33 8·8	16:09 12·5	.....					25	Sa.	7:18 13·4	12:17 9·3	16:35 12·4	.....				
26	F.	0:01 0·6	7:14 12·9	12:28 9·0	16:48 12·3					26	S.	0:28 -0·1	7:54 13·7	13:13 8·9	17:34 12·0				
27	Sa.	0:44 0·1	8:05 13·3	13:23 9·0	17:34 12·0					27	M.	1:12 0·0	8:35 13·9	14:07 8·2	18:35 11·4				
28	S.	1:28 0·0	8:54 13·5	14:19 8·8	18:25 11·5					28	Tu.	1:55 0·6	9:14 13·9	15:00 7·4	19:40 10·7				
29	M.	2:13 0·3	9:39 13·6	15:16 8·3	19:24 10·8					29	W.	2:38 1·5	9:52 13·8	15:54 6·7	20:54 9·9				
30	Tu.	2:59 1·0	10:23 13·5	16:16 7·8	20:37 9·9					30	Th.	3:22 2·8	10:29 13·5	16:52 5·9	22:16 9·4				
										31	F.	4:07 4·2	11:05 13·2	17:57 5·1	23:41 9·1				

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours, from midnight to midnight. The figures for height serve to distinguish High Water from Low Water.

The HEIGHT is in feet and tenths of a foot, above the Admiralty datum to which the soundings are referred on the chart of Vancouver harbour.

The tide in English bay and False creek is practically the same as in the Sand Heads tables, both in time and height. Data for Burrard inlet in relation to Vancouver, are given on page 5.

Date	Day	JANUARY.								Date	Day	FEBRUARY.								
		Time. H't.		Time. H't.		Time. H't.		Time. H't.				Time. H't.		Time. H't.		Time. H't.		Time. H't.		
		H. M. FT.	H. M. FT.	H. M. FT.	H. M. FT.		H. M. FT.	H. M. FT.				H. M. FT.	H. M. FT.	H. M. FT.	H. M. FT.		H. M. FT.	H. M. FT.	H. M. FT.	H. M. FT.
1	Th.	2:17 10·8	6:18 9·3	12:15 13·6	20:05 2·6		1	5	4:02 12·5	9:00 9·9	13:48 12·5	21:24 0·8								
2	F.	3:27 11·8	7:35 9·7	13:05 13·5	20:55 1·4		2	6	4:48 13·1	10:08 9·3	14:53 12·3	22:12 0·7								
3	Sa.	4:25 12·6	8:56 9·9	13:59 13·3	21:44 0·4		3	7	5:28 13·5	11:06 8·6	15:57 12·1	22:58 0·9								
4	So.	5:15 13·4	10:10 9·9	14:56 13·1	22:32 -0·2		4	8	6:05 13·7	11:55 7·7	16:58 11·9	23:42 1·5								
5	M.	5:57 14·0	11:15 9·6	15:54 12·8	23:19 -0·2		5	9	6:40 13·8	12:41 6·8	17:57 11·6	23:55 11·3								
6	Tu.	6:36 14·4	12:12 9·1	16:50 12·3	.....		6	10	0:25 2·4	7:14 13·7	13:26 6·1	18:55 11·3								
7	W.	0:04 0·2	7:14 14·5	13:05 8·5	17:48 11·8		7	11	1:07 3·4	7:47 13·5	14:10 5·4	19:53 10·9								
8	Th.	0:48 1·0	7:51 14·5	13:57 7·7	18:49 11·2		8	12	1:48 4·6	8:20 13·3	14:55 4·9	20:53 10·6								
9	F.	1:31 2·1	8:29 14·4	14:48 6·9	19:55 10·6		9	13	2:30 5·9	8:54 13·0	15:42 4·5	22:00 10·3								
10	Sa.	2:15 3·4	9:07 14·1	15:40 6·2	21:06 10·0		10	14	3:15 7·0	9:29 12·6	16:32 4·3	23:14 10·2								
11	So.	3:00 4·8	9:44 13·8	16:35 5·6	22:23 9·7		11	15	4:04 8·2	10:06 12·1	17:25 4·1	23:55 10·2								
12	M.	3:46 6·3	10:22 13·4	17:33 5·0	23:48 9·6		12	16	0:36 10·3	5:02 9·1	10:46 11·7	18:20 3·9								
13	Tu.	4:35 7·7	11:01 13·0	18:30 4·4	.....		13	17	2:03 10·7	6:21 9·7	11:35 11·2	19:16 3·5								
14	W.	1:22 9·9	5:31 8·9	11:41 12·5	19:22 3·8		14	18	3:11 11·2	7:59 9·8	12:32 10·9	20:09 3·1								
15	Th.	2:54 10·6	6:42 9·7	12:23 12·1	20:08 3·2		15	19	4:00 11·7	9:14 9·5	13:32 10·7	20:57 2·8								
16	F.	3:59 11·3	8:09 10·1	13:07 11·8	20:51 2·7		16	20	4:34 12·0	10:02 9·1	14:28 10·6	21:38 2·5								
17	Sa.	4:46 11·9	9:22 10·2	13:53 11·5	21:30 2·3		17	21	5:03 12·2	10:40 8·6	15:19 10·7	22:17 2·3								
18	So.	5:20 12·3	10:24 10·0	14:40 11·3	22:08 1·9		18	22	5:30 12·3	11:16 8·0	16:08 10·8	22:55 2·4								
19	M.	5:51 12·7	11:11 9·8	15:25 11·2	22:45 1·7		19	23	5:56 12·4	11:51 7·3	16:55 11·0	23:32 2·6								
20	Tu.	6:20 12·9	11:49 9·4	16:08 11·1	23:21 1·7		20	24	6:21 12·5	12:25 6·7	17:41 11·1	23:55 2·6								
21	W.	6:48 13·0	12:25 9·0	16:52 11·0	23:56 1·8		21	25	0:09 3·1	6:46 12·5	13:01 5·8	18:29 11·2								
22	Th.	7:15 13·0	13:00 8·5	17:37 10·9	.....		22	26	0:47 3·9	7:12 12·6	13:39 5·0	19:22 11·2								
23	F.	0:31 2·2	7:41 13·0	13:36 7·8	18:24 10·8		23	27	1:26 4·8	7:39 12·7	14:20 4·3	20:21 11·1								
24	Sa.	1:07 2·8	8:06 13·0	14:14 7·1	19:17 10·6		24	28	2:06 5·9	8:08 12·7	15:06 3·7	21:30 10·9								
25	So.	1:44 3·7	8:32 13·1	14:55 6·3	20:18 10·4		25	29	2:49 7·1	8:41 12·6	15:58 3·1	22:48 10·8								
26	M.	2:22 4·7	9:00 13·1	15:42 5·5	21:30 10·1		26	30	3:43 8·2	9:23 12·4	16:58 2·8	23:55 2·6								
27	Tu.	3:02 6·0	9:31 13·1	16:36 4·6	22:54 10·0		27	31	0:13 11·0	4:54 9·2	10:16 12·1	18:03 2·5								
28	W.	3:46 7·3	10:08 13·1	17:35 3·8	.....		28	32	1:34 11·4	6:24 9·6	11:21 11·6	19:06 2·2								
29	Th.	0:27 10·2	4:46 8·6	10:54 13·0	18:36 2·9		29	33	2:41 11·9	7:49 9·4	12:36 11·3	20:06 2·0								
30	F.	1:54 10·9	6:13 9·6	11:47 12·8	19:36 2·0															
31	Sa.	3:06 11·7	7:42 10·0	12:46 12·6	20:32 1·3															

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours, from midnight to midnight. The figures for height serve to distinguish High Water from Low Water.

The HEIGHT is measured from the average level of the lowest Low Water in each month of the year.

TIDAL DIFFERENCES for New Westminster and other ports on the lower Fraser, and for the Strait of Georgia, are given on page 5, 6 and 8. Tables and other data for the time of SLACK WATER in the navigable passes and narrows, follow the Tide Tables.

Date.	Day.	MARCH.								Date.	Day.	APRIL.							
		Time. H't.	H. M. FT.			Time. H't.	H. M. FT.												
1	M.	3:33	12°4	9:03	8°7	13:54	11°2	21:02	2°0	1	Th.	3:58	12°3	10:30	4°7	16:18	11°0	22:21	4°8
2	Tu.	4:15	12°7	10:03	7°7	15:06	11°2	21:54	2°2	2	F.	4:28	12°2	11:06	3°8	17:12	11°4	23:05	5°5
3	W.	4:50	12°8	10:51	6°7	16:10	11°3	22:42	2°7	3	Sa.	4:57	12°1	11:41	3°0	18:03	11°6	23:47	6°2
4	Th.	5:22	12°9	11:32	5°7	17:07	11°5	23:27	3°3	4	S.	5:26	12°0	12:16	2°6	18:53	11°8	.....	.....
5	F.	5:53	12°8	12:12	4°9	18:01	11°5	.....	.....	5	M.	0:28	6°9	5:56	11°8	12:52	2°3	19:42	11°8
6	Sa.	0:10	4°1	6:23	12°7	12:51	4°2	18:54	11°5	6	Tu.	1:10	7°5	6:27	11°6	13:29	2°2	20:30	11°8
7	S.	0:52	5°1	6:53	12°6	13:31	3°7	19:48	11°4	7	W.	1:55	8°0	6:59	11°3	14:07	2°3	21:19	11°8
8	M.	1:33	6°0	7:24	12°4	14:12	3°4	20:43	11°2	8	Th.	2:43	8°4	7:32	10°8	14:47	2°5	22:09	11°7
9	Tu.	2:14	6°9	7:56	12°1	14:54	3°3	21:40	11°0	9	F.	3:36	8°7	8:06	10°3	15:30	2°9	23:02	11°5
10	W.	2:57	7°7	8:29	11°7	15:39	3°4	22:41	10°9	10	Sa.	4:41	8°8	8:45	9°7	16:18	3°3	.....	.....
11	Th.	3:49	8°5	9:04	11°1	16:27	3°6	23:49	10°8	11	S.	0:02	11°5	6:05	8°7	9:56	9°1	17:13	3°8
12	F.	4:56	9°0	9:47	10°6	17:19	3°7	.....	.....	12	M.	1:00	11°5	7:19	8°1	11:32	8°8	18:13	4°1
13	Sa.	1:04	10°9	6:27	9°2	10:50	10°0	18:16	3°7	13	Tu.	1:47	11°6	8:16	7°3	12:58	8°9	19:14	4°3
14	S.	2:07	11°2	7:51	9°0	12:06	9°7	19:15	3°7	14	W.	2:25	11°6	8:58	6°3	14:12	9°3	20:12	4°5
15	M.	2:56	11°5	8:52	8°4	13:18	9°7	20:11	3°5	15	Th.	2:58	11°7	9:32	5°3	15:13	10°0	21:05	4°8
16	Tu.	3:33	11°6	9:33	7°7	14:24	9°9	21:01	3°8	16	F.	3:28	11°9	10:05	4°2	16:06	10°8	21:53	5°3
17	W.	4:03	11°8	10:08	7°0	15:20	10°3	21:46	3°4	17	Sa.	3:57	12°0	10:39	3°2	16:57	11°5	22:39	5°8
18	Th.	4:31	11°9	10:41	6°1	16:09	10°7	22:27	3°6	18	S.	4:26	12°1	11:15	2°2	17:47	12°1	23:24	6°5
19	F.	4:58	12°0	11:13	5°3	16:57	11°1	23:07	4°0	19	M.	4:56	12°3	11:54	1°3	18:38	12°6	.....	.....
20	Sa.	5:24	12°0	11:47	4°3	17:46	11°5	23:47	4°6	20	Tu.	0:11	7°2	5:28	12°3	12:36	0°7	19:31	12°8
21	S.	5:50	12°1	12:24	3°4	18:36	11°9	.....	.....	21	W.	1:01	7°8	6:03	12°2	13:22	0°4	20:27	13°0
22	M.	0:28	5°4	6:17	12°3	13:05	2°7	19:28	12°0	22	Th.	1:56	8°3	6:42	11°9	14:11	0°6	21:28	12°9
23	Tu.	1:11	6°3	6:46	12°4	13:50	2°2	20:25	12°0	23	F.	2:59	8°7	7:31	11°3	15:03	1°0	22:32	12°9
24	W.	1:58	7°2	7:20	12°2	14:39	1°8	21:31	11°	24	Sa.	4:11	8°8	8:32	10°5	15:58	1°8	23:31	12°8
25	Th.	2:52	8°1	8:00	12°0	15:32	1°8	22:43	11°8	25	S.	5:32	8°5	9:49	9°7	16:57	2°8	.....	.....
26	F.	3:55	8°8	8:49	11°5	16:28	2°1	23:57	11°8	26	M.	0:24	12°6	6:58	7°6	11:28	9°1	18:02	3°9
27	Sa.	5:14	9°1	9:51	10°8	17:28	2°5	.....	.....	27	Tu.	1:11	12°5	8:07	6°4	13:07	9°2	19:10	4°8
28	S.	1:03	12°0	6:44	8°9	11:12	10°1	18:33	2°9	28	W.	1:53	12°4	8:56	5°2	14:30	9°7	20:13	5°6
29	M.	2:00	12°1	8:06	8°0	12:49	9°9	19:40	3°3	29	Th.	2:31	12°2	9:33	4°0	15:37	10°3	21:09	6°3
30	Tu.	2:47	12°2	9:08	6°9	14:12	10°1	20:41	3°7	30	F.	3:05	12°1	10:06	3°1	16:32	11°0	21:57	7°0
31	W.	3:25	12°3	9:53	5°7	15:19	10°5	21:35	4°2										

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours from midnight to midnight. The figures for height serve to distinguish High Water from Low Water.

The HEIGHT is measured from the average level of the lowest Low Water in each month of the year.

TIDAL DIFFERENCES for New Westminster and other ports on the lower Fraser, and for the Strait of Georgia, are given on pages 5, 6 and 8. Tables and other data for the time of SLACK WATER in the navigable passes and narrows, follow the Tide Tables.

Date	Day	MAY.								JUNE.											
		Time. H't.		Time. H't.		Time. H't.		Time. H't.		Date		Day		Time. H't.		Time. H't.		Time. H't.		Time. H't.	
		H. M.	FT.		Tu.		Sa.	H. M.	FT.												
1	Sa.	3:37	12·0	10:38	2·4	17:20	11·5	22:44	7·5	1	Tu.		Sa.	3:53	11·5	11:17	1·1	18:47	12·5	.....	
2	Su.	4:07	11·8	11:11	1·8	18:06	11·8	23:30	8·0	2	W.		W.	0:04	9·4	4:25	11·3	11:50	1·0	19:23	12·7
3	M.	4:36	11·6	11:45	1·5	18:50	12·1	.....	....	3	Th.		Th.	0:48	9·3	4:58	11·0	12:24	1·0	19:58	12·8
4	Tu.	0:15	8·4	5:05	11·5	12:20	1·3	19:33	12·3	4	F.		F.	1:32	9·2	5:32	10·6	12:58	1·3	20:33	12·8
5	W.	0:59	8·7	5:35	11·2	12:55	1·3	20:15	12·4	5	Sa.		Sa.	2:18	8·9	6:09	10·2	13:33	1·7	21:09	12·8
6	Th.	1:44	8·8	6:06	10·8	13:31	1·6	20:57	12·5	6	Su.		Su.	3:06	8·6	6:54	9·8	14:11	2·3	21:44	12·7
7	F.	2:31	8·9	6:39	10·3	14:08	1·9	21:41	12·4	7	M.		M.	3:55	8·2	7:49	9·2	14:52	3·1	22:18	12·6
8	Sa.	3:24	8·8	7:15	9·8	14:48	2·4	22:27	12·3	8	Tu.		Tu.	4:47	7·5	9:06	8·8	15:37	4·0	22:53	12·5
9	Su.	4:24	8·6	7:59	9·2	15:31	3·0	23:13	12·1	9	W.		W.	5:40	6·7	10:38	8·5	16:26	5·1	23:29	12·4
10	M.	5:29	8·1	9:13	8·7	16:19	3·8	23:57	12·0	10	Th.		Th.	6:33	5·6	12:16	8·7	17:19	6·2	.....	
11	Tu.	6:32	7·4	11:08	8·3	17:16	4·5	.....	....	11	F.		F.	0:06	12·5	7:24	4·4	13:41	9·4	18:22	7·2
12	W.	0:38	12·0	7:27	6·4	12:45	8·6	18:18	5·3	12	Sa.		Sa.	0:44	12·6	8:13	3·1	14:51	10·3	19:34	8·0
13	Th.	1:15	12·0	8:12	5·3	13:58	9·2	19:21	5·9	13	Su.		Su.	1:24	12·8	8:59	1·7	15:53	11·3	20:45	8·6
14	F.	1:50	12·1	8:50	4·0	15:02	10·1	20:22	6·5	14	M.		M.	2:08	12·9	9:43	0·6	16:48	12·2	21:52	9·0
15	Sa.	2:24	12·2	9:27	2·7	16:00	11·0	21:19	7·1	15	Tu.		Tu.	2:56	13·0	10:26	-0·3	17:39	13·0	22:54	9·1
16	Su.	2:58	12·5	10:05	1·5	16:55	11·9	22:13	7·6	16	W.		W.	3:45	12·9	11:10	-0·8	18:28	13·6	23:53	9·1
17	M.	3:33	12·6	10:45	0·5	17:47	12·6	23:06	8·1	17	Th.		Th.	4:35	12·6	11:55	-0·9	19:15	14·0	.....	
18	Tu.	4:09	12·6	11:28	-0·3	18:38	13·2	.....	....	18	F.		F.	0:51	8·9	5:27	12·1	12:41	-0·5	20:00	14·2
19	W.	0:00	8·6	4:48	12·5	12:14	-0·6	19:28	13·6	19	Sa.		Sa.	1:48	8·4	6:22	11·5	13:28	0·3	20:44	14·2
20	Th.	0:56	8·8	5:32	12·2	13:02	-0·6	20:17	13·8	20	Su.		Su.	2:44	7·7	7:22	10·8	14:14	1·5	21:27	14·0
21	F.	1:55	8·8	6:22	11·6	13:51	-0·1	21:07	13·8	21	M.		M.	3:41	7·0	8:33	9·9	15:01	3·0	22:09	13·7
22	Sa.	2:57	8·5	7:19	10·8	14:41	0·9	21:59	13·7	22	Tu.		Tu.	4:42	6·2	9:56	9·3	15:50	4·6	22:51	13·3
23	Su.	4:04	8·1	8:29	9·9	15:32	2·1	22:52	13·5	23	W.		W.	5:47	5·4	11:29	9·1	16:43	6·2	23:32	12·9
24	M.	5:19	7·3	9:58	9·1	16:25	3·6	23:41	13·1	24	Th.		Th.	6:51	4·5	13:05	9·3	17:43	7·6	.....	
25	Tu.	6:36	6·3	11:39	8·8	17:22	5·0	.....	....	25	F.		F.	0:12	12·6	7:46	3·7	14:34	10·0	18:54	8·7
26	W.	0:25	12·8	7:39	5·2	13:15	9·0	18:24	6·4	26	Sa.		Sa.	0:51	12·2	8:32	2·9	15:49	10·7	20:11	9·3
27	Th.	1:05	12·6	8:28	4·1	14:40	9·7	19:30	7·4	27	Su.		Su.	1:30	12·0	9:11	2·3	16:48	11·4	21:20	9·7
28	F.	1:43	12·3	9:06	3·1	15:51	10·5	20:38	8·2	28	M.		M.	2:09	11·7	9:47	1·8	17:30	12·0	22:18	9·8
29	Sa.	2:18	12·1	9:40	2·4	16:47	11·2	21:39	8·7	29	Tu.		Tu.	2:48	11·5	10:22	1·5	18:03	12·3	23:07	9·7
30	Su.	2:50	12·0	10:13	1·7	17:30	11·8	22:32	9·1	30	W.		W.	3:26	11·3	10:56	1·3	18:33	12·6	23:49	9·5
31	M.	3:21	11·7	10:45	1·3	18:09	12·2	23:19	9·3												

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours, from midnight to midnight. The figures for height serve to distinguish High Water from Low Water.

The HEIGHT is measured from the average level of the lowest Low Water in each month of the year.

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Date	Day	JULY.								Date	Day	AUGUST.							
		Time. H't.		Time. H't.		Time. H't.		Time. H't.				Time. H't.		Time. H't.		Time. H't.		Time. H't.	
		H. M.	FT.	H. M.	FT.	H. M.	FT.	H. M.	FT.			H. M.	FT.	H. M.	FT.	H. M.	FT.			H. M.	FT.
1	Th.	4:04	11·1	11:29	1·2	19:02	12·8	.....	.....	1	S.	0:36	7·9	5:31	10·7	12:16	2·3	19:18	12·4
2	F.	0:29	9·2	4:44	10·8	12:02	1·3	19:30	12·9	2	M.	1:10	7·3	6:14	10·7	12:52	2·8	19:42	12·5
3	Sa.	1:08	8·9	5:26	10·6	12:36	1·5	19:58	12·9	3	Tu.	1:47	6·7	7:02	10·6	13:27	3·6	20:07	12·5
4	S.	1:47	8·5	6:10	10·4	13:11	2·0	20:27	12·8	4	W.	2:27	6·0	7:58	10·5	14:03	4·6	20:34	12·5
5	M.	2:27	8·0	6:57	10·0	13:47	2·7	20:57	12·7	5	Th.	3:12	5·3	9:05	10·2	14:41	5·7	21:04	12·6
6	Tu.	3:09	7·3	7:52	9·7	14:25	3·6	21:28	12·7	6	F.	4:03	4·6	10:21	10·0	15:21	6·8	21:39	12·6
7	W.	3:56	6·7	9:01	9·4	15:05	4·6	22:00	12·7	7	Sa.	5:00	3·9	11:46	10·0	16:08	8·0	22:20	12·5
8	Th.	4:47	5·8	10:24	9·1	15:48	5·8	22:35	12·7	8	S.	6:01	3·1	13:13	10·4	17:29	9·0	23:12	12·4
9	F.	5:42	4·8	11:52	9·2	16:37	7·1	23:14	12·8	9	M.	7:04	2·4	14:29	11·1	19:02	9·6	.....	.....
10	Sa.	6:39	3·7	13:26	9·8	17:43	8·2	23:58	12·8	10	Tu.	0:14	12·2	8:05	1·7	15:27	11·8	20:22	9·5
11	S.	7:36	2·5	14:48	10·7	19:08	9·1	.....	.....	11	W.	1:21	12·2	9:00	1·1	16:15	12·5	21:32	8·9
12	M.	0:47	12·9	8:29	1·4	15:52	11·6	20:25	9·5	12	Th.	2:30	12·1	9:49	0·8	16:56	12·9	22:32	8·1
13	Tu.	1:39	12·9	9:20	0·5	16:44	12·4	21:35	9·5	13	F.	3:38	12·1	10:36	0·9	17:35	13·2	23:24	7·2
14	W.	2:35	12·8	10:09	-0·2	17:30	13·1	22:39	9·2	14	Sa.	4:39	12·0	11:22	1·4	18:12	13·3	.....	.....
15	Th.	3:34	12·7	10:56	-0·4	18:11	13·6	23:36	8·7	15	S.	0:10	6·3	5:37	11·9	12:07	2·2	18:47	13·3
16	F.	4:32	12·4	11:41	-0·2	18:51	13·9	.....	.....	16	M.	0:55	5·5	6:34	11·7	12:51	3·2	19:21	13·2
17	Sa.	0:30	8·0	5:29	12·0	12:25	0·5	19:30	14·0	17	Tu.	1:39	4·8	7:33	11·4	13:34	4·3	19:54	13·0
18	S.	1:23	7·2	6:27	11·5	13:10	1·4	20:08	13·9	18	W.	2:24	4·3	8:34	11·1	14:18	5·6	20:27	12·7
19	M.	2:15	6·4	7:29	10·9	13:54	2·7	20:45	13·7	19	Th.	3:11	4·0	9:39	10·8	15:04	6·8	21:02	12·3
20	Tu.	3:07	5·7	8:37	10·4	14:39	4·2	21:22	13·4	20	F.	4:01	3·9	10:51	10·6	15:53	7·9	21:40	11·9
21	W.	4:00	5·1	9:51	10·0	15:25	5·7	22:00	13·0	21	Sa.	4:55	3·9	12:09	10·5	16:51	8·8	22:26	11·3
22	Th.	4:55	4·7	11:11	9·7	16:14	7·2	22:39	12·6	22	S.	5:54	3·9	13:30	10·7	18:09	9·3	23:21	10·8
23	F.	5:54	4·2	12:41	9·8	17:12	8·4	23:20	12·1	23	M.	6:57	3·7	14:43	11·0	19:46	9·4	.....	.....
24	Sa.	6:55	3·7	14:19	10·3	18:24	9·3	.....	.....	24	Tu.	0:24	10·5	7:55	3·5	15:36	11·4	21:00	9·0
25	S.	0:04	11·7	7:51	3·2	15:33	10·9	19:54	9·7	25	W.	1:29	10·3	8:44	3·2	16:12	11·7	21:54	8·6
26	M.	0:52	11·4	8:38	2·7	16:25	11·5	21:15	9·8	26	Th.	2:27	10·3	9:26	3·0	16:41	11·9	22:29	8·0
27	Tu.	1:43	11·2	9:18	2·4	17:02	11·9	22:15	9·5	27	F.	3:18	10·5	10:05	2·9	17:07	11·9	23:01	7·4
28	W.	2:35	11·0	9:55	2·1	17:32	12·2	22:58	9·2	28	Sa.	4:06	10·7	10:43	2·9	17:32	12·0	23:32	6·8
29	Th.	3:24	10·9	10:31	1·9	18:00	12·4	23:32	8·8	29	S.	4:52	10·9	11:20	3·1	17:56	11·9	.....	.....
30	F.	4:08	10·8	11:06	1·8	18:27	12·5	.....	.....	30	M.	0:04	6·2	5:37	11·1	11:57	3·6	18:19	12·0
31	Sa.	0:04	8·4	4:50	10·8	11:41	2·0	18:53	12·5	31	Tu.	0:38	5·5	6:23	11·3	12:34	4·2	18:43	12·0

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours from midnight to midnight. The figures for height serve to distinguish High Water from Low Water.

The HEIGHT is measured from the average level of the lowest Low Water in each month of the year.

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Date.	Day.	SEPTEMBER.								Date.	Day.	OCTOBER.								
		Time. H't.		Time. H't.		Time. H't.		Time. H't.				Time. H't.		Time. H't.		Time. H't.		Time. H't.		
		H. M.	Ft.		H. M.	Ft.	H. M.	Ft.	H. M.	Ft.		H. M.	Ft.	H. M.	Ft.	H. M.	Ft.	H. M.	Ft.	H. M.	Ft.
1	W.	1:14	4·8	7:11	11·4	13:12	5·1	19:08	12·1	1	F.	1:21	2·2	8:04	12·4	13:39	7·5	18:55	12·1	
2	Th.	1:53	4·1	8:02	11·3	13:51	6·0	19:35	12·2	2	Sa.	2:04	1·9	9:00	12·4	14:29	8·2	19:33	11·9	
3	F.	2:35	3·6	9:01	11·2	14:32	7·0	20:06	12·2	3	So.	2:52	1·9	10:04	12·3	15:27	8·8	20:17	11·5	
4	Sa.	3:23	3·2	10:12	11·1	15:18	7·9	20:46	12·1	4	M.	3:46	2·2	11:12	12·2	16:39	9·1	21:15	10·9	
5	So.	4:19	2·9	11:30	11·0	16:22	8·8	21:39	11·8	5	Tu.	4:46	2·6	12:16	12·2	19:01	8·8	22:36	10·3	
6	M.	5:24	2·7	12:49	11·2	17:45	9·3	22:44	11·4	6	W.	5:52	3·2	13:14	12·3	19:21	8·1	.....	.....	
7	Tu.	6:31	2·6	13:57	11·7	19:12	9·1	.....	.....	7	Th.	0:14	10·0	7:00	3·7	14:04	12·4	20:27	7·0	
8	W.	0:00	11·1	7:34	2·5	14:52	12·1	20:26	8·4	8	F.	1:45	10·2	8:06	4·2	14:47	12·5	21:18	5·7	
9	Th.	1:24	11·0	8:31	2·4	15:37	12·4	21:27	7·4	9	Sa.	3:00	10·8	9:04	4·8	15:24	12·5	21:59	4·5	
10	F.	2:44	11·2	9:24	2·6	16:14	12·6	22:17	6·4	10	So.	4:03	11·3	9:57	5·4	15:58	12·4	22:38	3·5	
11	Sa.	3:50	11·6	10:14	3·0	16:49	12·7	23:00	5·3	11	M.	4:57	11·9	10:46	6·1	16:30	12·4	23:16	2·7	
12	So.	4:46	11·8	11:02	3·6	17:22	12·7	23:42	4·4	12	Tu.	5:48	12·3	11:32	6·8	17:01	12·2	23:53	2·2	
13	M.	5:40	12·0	11:48	4·4	17:54	12·6	.....	.....	13	W.	6:38	12·6	12:17	7·4	17:33	12·0	.....	.....	
14	Tu.	0:22	3·7	6:33	12·1	12:33	5·3	18:25	12·5	14	Th.	0:31	2·0	7:27	12·7	13:03	8·0	18:06	11·7	
15	W.	1:03	3·2	7:26	12·1	13:17	6·2	18:57	12·2	15	F.	1:10	1·9	8:16	12·7	13:50	8·4	18:41	11·4	
16	Th.	1:45	2·9	8:20	12·0	14:02	7·1	19:31	12·0	16	Sa.	1:50	2·1	9:04	12·6	14:39	8·7	19:18	10·9	
17	F.	2:28	2·9	9:16	11·7	14:49	7·8	20:08	11·5	17	So.	2:31	2·5	9:52	12·5	15:31	8·9	19:58	10·3	
18	Sa.	3:14	3·1	10:15	11·6	15:39	8·5	20:48	11·0	18	M.	3:13	3·0	10:41	12·3	16:35	8·8	20:44	9·7	
19	So.	4:02	3·5	11:19	11·4	16:41	8·9	21:33	10·4	19	Tu.	3:57	3·6	11:32	12·1	17:51	8·6	21:48	9·1	
20	M.	4:53	3·8	12:29	11·3	18:08	9·0	22:37	9·8	20	W.	4:46	4·2	12:24	12·0	19:10	8·0	23:27	8·8	
21	Tu.	5:50	4·1	13:33	11·4	19:43	8·7	23:57	9·5	21	Th.	5:44	4·8	13:13	12·0	20:06	7·2	.....	.....	
22	W.	6:52	4·2	14:26	11·6	20:45	8·1	.....	.....	22	F.	0:54	8·9	6:46	5·2	13:56	12·0	20:43	6·3	
23	Th.	1:13	9·5	7:47	4·2	15:08	11·7	21:21	7·3	23	Sa.	2:06	9·4	7:46	5·6	14:31	11·9	21:14	5·3	
24	F.	2:19	9·8	8:37	4·2	15:41	11·7	21:53	6·6	24	So.	3:07	10·1	8:40	5·9	15:02	12·0	21:44	4·3	
25	Sa.	3:16	10·2	9:23	4·2	16:09	11·7	22:24	5·8	25	M.	4:00	10·9	9:30	6·3	15:31	12·0	22:16	3·3	
26	So.	4:06	10·7	10:06	4·4	16:35	11·7	22:54	5·0	26	Tu.	4:49	11·6	10:18	6·8	15:59	12·1	22:50	2·4	
27	M.	4:53	11·2	10:48	4·8	17:00	11·8	23:26	4·2	27	W.	5:37	12·3	11:05	7·4	16:28	12·2	23:28	1·6	
28	Tu.	5:39	11·7	11:29	5·4	17:25	11·8	.....	.....	28	Th.	6:25	12·9	11:53	7·9	16:59	12·3	.....	.....	
29	W.	0:01	3·4	6:25	12·0	12:11	6·0	17:52	12·0	29	F.	0:10	1·0	7:14	13·3	12:43	8·5	17:23	12·3	
30	Th.	0:40	2·7	7:13	12·3	12:54	6·8	18:22	12·1	30	Sa.	0:54	0·7	8:59	13·5	13:36	8·8	18:12	12·1	
										31	So.	1:41	0·7	8:59	13·5	14:34	9·1	19:00	11·7	

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours, from midnight to midnight. The figures for height serve to distinguish High Water from Low Water.

The HEIGHT is measured from the average level of the lowest Low Water in each month of the year.

TIDAL DIFFERENCES for New Westminster and other ports on the lower Fraser, and for the Strait of Georgia, are given on pages 5, 6 and 8. Tables and other data for the time of SLACK WATER in the navigable passes and narrows, follow the Tide Tables.

Date.	Day.	NOVEMBER.								Date.	Day.	DECEMBER.								
		Time. H't.		Time. H't.		Time. H't.		Time. H't.				Time. H't.		Time. H't.		Time. H't.		Time. H't.		
		H. M. FT.	H. M. FT.	H. M. FT.	H. M. FT.		H. M. FT.	H. M. FT.				H. M. FT.	H. M. FT.	H. M. FT.	H. M. FT.		H. M. FT.	H. M. FT.	H. M. FT.	H. M. FT.
1	M.	2:29	1·1	9:54	13·5	15:38	9·0	19:57	11·0	1	W.	3:01	2·2	10:17	14·1	16:39	7·6	21:19	9·8	
2	Tu.	3:20	1·9	10:49	13·4	16:50	8·6	21:06	10·2	2	Th.	3:53	3·7	11:04	13·8	17:47	6·7	23:03	9·3	
3	W.	4:15	3·0	11:42	13·2	18:09	7·9	22:42	9·5	3	F.	4:48	5·3	11:48	13·5	18:51	5·6	....	....	
4	Th.	5:16	4·1	12:32	13·0	19:19	6·8	.....	.....	4	Sa.	0:44	9·5	5:49	6·8	12:28	13·2	19:47	4·4	
5	F.	0:39	9·4	6:24	5·3	13:17	12·8	20:16	5·5	5	S.	2:16	10·1	6:57	8·1	13:06	12·9	20:34	3·4	
6	Sa.	2:06	9·9	7:33	6·3	13:58	12·7	21:02	4·2	6	M.	3:31	11·0	8:09	9·0	13:43	12·7	21:14	2·6	
7	S.	3:18	10·7	8:36	7·1	14:35	12·6	21:41	3·2	7	Tu.	4:30	11·8	9:14	9·6	14:19	12·4	21:52	1·9	
8	M.	4:18	11·5	9:34	7·8	15:09	12·5	22:17	2·3	8	W.	5:19	12·5	10:12	9·9	14:55	12·1	22:28	1·5	
9	Tu.	5:09	12·2	10:27	8·4	15:42	12·3	22:52	1·8	9	Th.	6:00	12·9	11:06	10·0	15:32	11·9	23:03	1·3	
10	W.	5:57	12·7	11:16	8·8	16:14	12·1	23:27	1·4	10	F.	6:38	13·2	11:57	10·0	16:10	11·6	23:37	1·3	
11	Th.	6:42	13·0	12:04	9·1	16:47	11·8	.....	.....	11	Sa.	7:14	13·4	12:46	9·8	16:49	11·3	....	....	
12	F.	0:03	1·3	7:26	13·2	12:51	9·3	17:21	11·5	12	S.	0:10	1·5	7:48	13·5	13:32	9·6	17:29	10·9	
13	Sa.	0:38	1·4	8:08	13·3	13:39	9·3	17:56	11·1	13	M.	0:44	1·7	8:21	13·5	14:16	3·2	18:11	10·5	
14	S.	1:13	1·7	8:47	13·3	14:28	9·2	18:32	10·6	14	Tu.	1:19	2·2	8:53	13·5	14:59	8·7	18:57	10·0	
15	M.	1:49	2·2	9:25	13·2	15:19	9·0	19:12	10·0	15	W.	1:55	2·9	9:25	13·4	15:42	8·2	19:51	9·5	
16	Tu.	2:27	2·8	10:04	13·1	16:14	8·7	20:08	9·4	16	Th.	2:33	3·7	9:58	13·2	16:27	7·6	21:00	9·1	
17	W.	3:08	3·5	10:44	12·9	17:14	8·2	21:26	8·8	17	F.	3:13	4·6	10:32	13·0	17:18	6·9	22:24	8·8	
18	Th.	3:52	4·3	11:25	12·7	18:16	7·4	22:57	8·6	18	Sa.	3:57	5·7	11:07	12·9	18:13	5·9	....	....	
19	F.	4:44	5·2	12:07	12·5	19:11	6·5	.....	.....	19	S.	0:02	9·0	4:50	6·8	11:42	12·8	19:04	4·8	
20	Sa.	0:30	8·7	5:46	6·1	12:47	12·4	19:56	5·6	20	M.	1:31	9·6	5:54	7·9	12:18	12·8	19:51	3·7	
21	S.	1:51	9·3	6:55	6·9	13:24	12·4	20:33	4·4	21	Tu.	2:46	10·5	7:07	8·8	12:56	12·9	20:36	2·4	
22	M.	3:01	10·3	7:58	7·5	13:59	12·5	21:09	3·2	22	W.	3:48	11·5	8:18	9·4	13:38	13·0	21:20	1·3	
23	Tu.	3:59	11·2	8:56	8·1	14:33	12·6	21:46	2·1	23	Th.	4:40	12·4	9:27	9·7	14:24	13·1	22:04	0·4	
24	W.	4:49	12·1	9:51	8·6	15:08	12·8	22:26	1·0	24	F.	5:26	13·2	10:30	9·8	15:13	13·0	22:49	-0·2	
25	Th.	5:36	12·9	10:45	9·0	15:45	12·8	23:08	0·3	25	Sa.	6:10	13·9	11:29	9·7	16:04	12·9	23:35	-0·4	
26	F.	6:22	13·6	11:39	9·3	16:24	12·7	23:52	-0·2	26	S.	6:53	14·4	12:26	9·3	16:58	12·5	....	....	
27	Sa.	7:07	14·0	12:34	9·5	17:06	12·5	.....	..	27	M.	0:20	-0·2	7:34	14·6	13:21	8·7	17:56	12·0	
28	S.	0:37	-0·2	7:53	14·3	13:32	9·3	17:54	12·0	28	Tu.	1:04	0·6	8:14	14·7	14:15	8·0	18:59	11·3	
29	M.	1:23	0·2	8:40	14·4	14:32	8·9	18:51	11·4	29	W.	1:48	1·6	8:55	14·5	15:10	7·2	20:10	10·7	
30	Tu.	2:11	1·0	9:28	14·3	15:34	8·4	19:56	10·6	30	Th.	2:33	3·1	9:36	14·3	16:07	6·3	21:30	10·1	
										31	F.	3:21	4·7	10:17	13·9	17:06	5·4	22:59	9·8	

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours from midnight to midnight. The figures for height serve to distinguish High Water from Low Water.

The HEIGHT is measured from the average level of the lowest Low Water in each month of the year.

TIDAL DIFFERENCES for New Westminster and other ports on the lower Fraser, and for the Strait of Georgia, are given on pages 5, 6 and 8. Tables and other data for the time of SLACK WATER in the navigable passes and narrows, follow the Tide Tables.

Date.	Day.	JANUARY.								FEBRUARY.									
		HIGH WATER.				LOW WATER.				HIGH WATER.				LOW WATER.					
		Time.	H't.	Time.	H't.	Time.	H't.	Time.	H't.	Time.	H't.	Time.	H't.	Time.	H't.	Time.	H't.		
		H. M. FT.	H. M. FT.	H. M. FT.	H. M. FT.	H. M. FT.	H. M. FT.	H. M. FT.	H. M. FT.	H. M. FT.	H. M. FT.	H. M. FT.	H. M. FT.	H. M. FT.	H. M. FT.	H. M. FT.	H. M. FT.		
1	Th.	7:50	12·3	21:15	9·9	1:12	5·9	14:49	3·6	1	8·0	9:40	12·8	23:00	11·2	3:19	6·1	16:31	2·3
2	F.	8:47	12·8	22:14	10·4	2:17	6·2	15:49	2·9	2	M.	10:38	13·1	23:46	11·7	4:24	5·7	17:22	1·8
3	Sa.	9:42	13·3	23:09	11·1	3:23	6·0	16:44	2·0	3	Tu.	11:31	13·2	... .. .	.. .. .	5:23	5·2	18:10	1·6
4	So.	10:36	13·6	... ..	.. ..	4:26	5·8	17:35	1·5	4	W.	0:30	12·1	12:22	13·1	6:16	4·6	18:55	1·6
5	M.	0:01	11·7	11:31	13·7	5:26	5·6	18:25	1·2	5	Th.	1:12	12·3	13:10	12·9	7:07	4·2	19:38	1·9
	Tu.	0:51	12·1	12:27	13·6	6:24	5·2	19:14	1·2		F.	1:52	12·5	13:56	12·4	7:56	3·9	20:19	2·4
	W.	1:39	12·4	13:21	13·3	7:21	5·0	20:01	1·4	7	Sa.	2:31	12·5	14:41	11·8	8:44	3·8	20:58	3·1
8	Th.	2:25	12·5	14:13	12·8	8:16	4·7	20:46	1·9	8	So.	3:09	12·5	15:28	11·0	9:32	3·8	21:36	3·9
9	F.	3:09	12·4	15:04	12·1	9:10	4·6	21:30	2·6	9	M.	3:48	12·0	16:19	10·2	10:22	4·1	22:15	4·8
10	Sa.	3:52	12·3	15:56	11·2	10:04	4·7	22:13	3·5	10	Tu.	4:29	11·6	17:18	9·5	11:15	4·4	22:57	5·6
11	So.	4:36	12·0	16:51	10·3	10:59	4·9	22:57	4·5	11	W.	5:15	11·2	18:30	9·0	12:15	4·7	23:48	6·4
12	M.	5:22	11·7	17:54	9·6	11:57	5·0	23:44	5·5	12	Th.	6:09	10·9	19:53	8·9	.....	.....	13:21	4·8
13	Tu.	6:14	11·5	19:14	9·2	.....	.....	13:02	5·0	13	F.	7:13	10·7	21:11	9·2	0:51	6·8	14:23	4·5
14	W.	7:14	11·4	20:36	9·3	0:36	6·2	14:11	4·8	14	Sa.	8:22	10·7	22:08	9·6	2:00	7·0	15:20	4·2
15	Th.	8:15	11·4	21:44	9·6	1:34	6·8	15:09	4·5	15	So.	9:20	11·0	22:49	10·0	3:06	6·8	16:11	3·7
16	F.	9:07	11·5	22:36	9·9	2:33	6·9	15:58	4·1	16	M.	10:09	11·2	23:24	10·3	4:02	6·4	16:56	3·3
17	Sa.	9:52	11·7	23:19	10·3	3:28	6·9	16:41	3·6	17	Tu.	10:52	11·4	23:56	10·6	4:49	5·9	17:33	2·9
18	So.	10:32	11·8	23:54	10·5	4:18	6·8	17:21	3·2	18	W.	11:32	11·6	.....	.....	5:31	5·4	18:08	2·6
19	M.	11:10	12·0	.....	.. ..	5:03	6·5	17:59	2·9	19	Th.	0:27	10·9	12:11	11·7	6:11	4·8	18:41	2·5
20	Tu.	0:28	10·7	11:47	12·0	5:46	6·2	18:35	2·6	20	F.	0:58	11·2	12:50	11·7	6:49	4·3	19:13	2·6
21	W.	1:01	10·9	12:24	12·0	6:28	5·9	19:09	2·5	21	Sa.	1:30	11·4	13:30	11·6	7:26	3·8	19:44	2·9
22	Th.	1:33	11·1	13:02	11·9	7:09	5·5	19:41	2·5	22	So.	2:03	11·7	14:11	11·3	8:05	3·4	20:16	3·2
23	F.	2:04	11·2	13:41	11·8	7:48	5·1	20:12	2·7	23	M.	2:37	11·9	14:54	10·9	8:48	3·2	20:51	3·8
24	Sa.	2:36	11·4	14:22	11·5	8:28	4·8	20:44	3·0	24	Tu.	3:14	12·9	15:44	10·3	9:36	3·3	21:32	4·4
25	So.	3:09	11·5	15:07	11·0	9:11	4·6	21:19	3·5	25	W.	3:56	11·9	16:46	9·7	10:35	3·4	22:24	5·2
26	M.	3:45	11·7	15:57	10·4	10:02	4·5	21:58	4·2	26	Th.	4:45	11·7	18:03	9·2	11:44	3·6	23:27	5·9
27	Tu.	4:27	11·8	16:58	9·8	11:00	4·4	22:45	5·0	27	F.	5:48	11·4	19:30	9·2	.....	.....	13:00	3·5
28	W.	5:16	11·8	18:15	9·3	12:08	4·3	23:43	5·7	28	Sa.	7:01	11·3	20:49	9·7	0:40	6·2	14:12	3·3
29	Th.	6:16	11·9	19:46	9·3	.....	.....	13:23	4·0	29	So.	8:21	11·5	21:52	10·4	2:01	6·2	15:16	2·9
30	F.	7:25	12·1	21:05	9·8	0:52	6·2	14:34	3·5										
31	Sa.	8:36	12·4	22:09	10·4	2:06	6·3	15:36	2·8										

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours, from midnight to midnight.

The HEIGHT is in feet and tenths of a foot, measured from the level of extreme Low Water.

TIDAL DIFFERENCES for the West coast of Vancouver island, are given on page 5.

		MARCH.										APRIL.							
Date.	Day.	HIGH WATER.				LOW WATER.				Date.	Day.	HIGH WATER.				LOW WATER.			
		Time.	H't.	Time.	H't.	Time.	H't.	Time.	H't.			Time.	H't.	Time.	H't.	Time.	H't.	Time.	H't.
1	M.	8:33	11·8	22:43	11·0	3:17	5·7	16:12	2·5	1	Th.	11:21	11·3	23:37	11·8	5:05	3·4	17:19	3·1
2	Tu.	10:34	12·2	23:27	11·6	4:21	5·0	17:02	2·3	2	F.	.....	.....	12:05	11·4	5:48	2·8	17:58	3·3
3	W.	11:25	12·3	.....	.....	5:15	4·2	17:47	2·2		Sa.	0:13	12·0	12:46	11·3	6:30	2·4	18:36	3·6
4	Th.	0:07	12·0	12:11	12·3	6:04	3·7	18:29	2·4	4	Fr.	0:47	12·1	13:26	11·1	7:11	2·2	19:13	3·9
5	F.	0:45	12·2	12:56	12·1	6:50	3·2	19:09	2·7	5	M.	1:20	12·0	14:05	10·8	7:51	2·2	19:49	4·3
6	Sa.	1:22	12·3	13:40	11·8	7:34	2·9	19:47	3·1	6	Tu.	1:52	11·8	14:45	10·3	8:30	2·3	20:25	4·7
7	Fr.	1:58	12·2	14:23	11·3	8:17	2·8	20:23	3·7	7	W.	2:25	11·5	15:27	9·9	9:10	2·5	21:02	5·1
8	M.	2:33	12·1	15:07	10·7	8:59	3·0	20:58	4·2	8	Th.	2:59	11·0	16:15	9·4	9:52	2·9	21:42	5·6
9	Tu.	3:07	11·8	15:53	10·1	9:42	3·3	21:35	5·0	9	F.	3:36	10·5	17:12	9·0	10:38	3·3	22:32	6·0
10	W.	3:42	11·3	16:45	9·4	10:29	3·7	22:16	5·6	10	Sa.	4:21	9·9	18:18	8·7	11:31	3·7	23:38	6·3
11	Th.	4:19	10·8	17:48	8·9	11:22	4·1	23:05	6·2	11	Fr.	5:21	9·4	19:33	8·9	.....	.....	12:30	3·9
12	F.	5:06	10·3	19:08	8·7	.....	.....	12:24	4·3	12	M.	6:44	9·1	20:35	9·2	0:57	6·2	13:34	3·9
13	Sa.	6:14	9·9	20:26	8·9	0:08	6·6	13:32	4·3	13	Tu.	8:06	9·2	21:21	9·7	2:09	5·7	14:36	3·8
14	Fr.	7:41	9·8	21:25	9·3	1:26	6·7	14:37	4·1	14	W.	9:13	9·6	21:58	10·3	3:06	5·0	15:28	3·6
15	M.	8:51	10·0	22:06	9·8	2:39	6·3	15:30	3·7	15	Th.	10:07	10·1	22:33	10·8	3:54	4·1	16:12	3·5
16	Tu.	9:45	10·4	22:41	10·2	3:38	5·7	16:14	3·3	16	F.	10:54	10·5	23:07	11·3	4:37	3·3	16:51	3·4
17	W.	10:32	10·7	23:15	10·6	4:26	5·0	16:54	3·1	17	Sa.	11:39	10·8	23:42	11·8	5:19	2·4	17:29	3·4
18	Th.	11:15	11·1	23:48	11·0	5:07	4·3	17:31	2·9	18	Fr.	...	....	12:23	11·0	6:02	1·8	18:07	3·5
19	F.	11:57	11·3	.....	.....	5:47	3·6	18:06	2·9	19	M.	0:18	12·2	13:08	11·0	6:46	1·3	18:46	3·8
20	Sa.	0:21	11·4	12:38	11·3	6:26	2·9	18:40	3·0	20	Tu.	0:55	12·4	13:54	10·9	7:33	1·0	19:27	4·0
21	Fr.	0:54	11·7	13:20	11·3	7:06	2·4	19:15	3·2	21	W.	1:34	12·4	14:42	10·6	8:22	0·9	20:12	4·4
22	M.	1:28	12·0	14:03	11·1	7:48	2·1	19:51	3·6	22	Th.	2:17	12·2	15:35	10·3	9:13	1·2	21:05	4·8
23	Tu.	2:03	12·1	14:48	10·7	8:32	2·0	20:29	4·1	23	F.	3:06	11·7	16:34	10·0	10:07	1·6	22:08	5·3
24	W.	2:41	12·1	15:38	10·2	9:21	2·1	21:11	4·6	24	Sa.	4:05	11·0	17:40	9·7	11:06	2·2	23:24	5·6
25	Th.	3:25	11·9	16:37	9·7	10:17	2·4	22:07	5·3	25	Fr.	5:18	10·2	18:50	9·8	.....	.....	12:11	2·8
26	F.	4:18	11·4	17:49	9·3	11:22	2·8	23:18	5·8	26	M.	6:44	9·7	20:00	10·2	0:45	5·4	13:20	3·2
27	Sa.	5:26	10·8	19:15	9·3	.....	.....	12:33	3·1	27	Tu.	8:06	9·8	20:57	10·7	2:00	5·0	14:22	3·5
28	Fr.	6:48	10·4	20:29	9·8	0:38	6·0	13:45	3·2	28	W.	9:18	10·0	21:44	11·1	3:05	4·2	15:17	3·7
29	M.	8:15	10·5	21:28	10·5	2:03	5·7	14:51	3·1	29	Th.	10:15	10·3	22:24	11·4	4:01	3·5	16:05	3·9
30	Tu.	9:29	10·9	22:17	11·0	3:16	4·9	15:49	3·0	30	F.	11:02	10·5	23:02	11·7	4:48	2·8	16:47	4·1
31	W.	10:30	11·2	22:59	11·5	4:15	4·1	16:37	3·0			.	.	.	.	.	.	.	

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours, from midnight to midnight.

The HEIGHT is in feet and tenths of a foot, measured from the level of extreme Low Water.

TIDAL DIFFERENCES for the West coast of Vancouver island, are given on page 5.

## TIDE TABLES.—CLAYOQUOT, B.C.—1920.

Date.	MAY.								Date.	JUNE.									
	Day.	HIGH WATER.				LOW WATER.					HIGH WATER.				LOW WATER.				
		Time. H't.	H. M. FT.	Time. H't.	H. M. FT.	Time. H't.	H. M. FT.	Time. H't.	H. M. FT.	Time. H't.	H. M. FT.	Time. H't.	H. M. FT.	Time. H't.	H. M. FT.	Time. H't.	H. M. FT.		
1	Sa.	11:45	10·6	23:38	11·8	5:30	2·3	17:27	4·3	1	Tu.	.....	....	12:53	10·1	6:29	1·9	18:14	5·4
2	So.	.....	.....	12:27	10·6	6:10	2·0	18:05	4·6	2	W.	0:14	11·5	13:30	10·1	7:05	1·7	18:52	5·3
3	M.	0:13	11·8	13:08	10·5	6:48	1·9	18:42	4·8	3	Th.	0:49	11·3	14:06	10·1	7:39	1·7	19:31	5·3
4	Tu.	0:47	11·7	13:48	10·3	7:25	1·8	19:18	5·0	4	F.	1:25	11·1	14:42	10·0	8:12	1·7	20:12	5·3
5	W.	1:20	11·5	14:27	10·1	8:01	1·9	19:55	5·1	5	Sa.	2:02	10·8	15:19	9·8	8:46	1·9	20:55	5·2
6	Th.	1:53	11·3	15:06	9·8	8:38	2·0	20:34	5·3	6	So.	2:41	10·4	15:58	9·7	9:23	2·2	21:45	5·3
7	F.	2:27	10·9	15:48	9·6	9:16	2·2	21:18	5·6	7	M.	3:23	9·9	16:41	9·7	10:04	2·7	22:42	5·2
8	Sa.	3:05	10·4	16:35	9·3	9:57	2·6	22:09	5·8	8	Tu.	4:09	9·3	17:29	9·7	10:51	3·3	23:44	5·1
9	So.	3:48	9·8	17:27	9·2	10:43	3·1	23:11	5·8	9	W.	5:13	8·8	18:23	9·8	11:43	3·8	.....	.....
10	M.	4:43	9·2	18:26	9·2	11:38	3·5	.....	....	10	Th.	6:34	8·6	19:18	10·2	0:49	4·7	12:39	4·2
11	Tu.	5:57	8·8	19:28	9·4	0:20	5·7	12:40	3·8	11	F.	8:01	8·6	20:12	10·8	1:52	4·0	13:36	4·5
12	W.	7:26	8·7	20:22	9·9	1:28	5·2	13:41	4·0	12	Sa.	9:11	9·0	21:03	11·4	2:49	3·2	14:33	4·7
13	Th.	8:41	9·0	21:08	10·5	2:30	4·4	14:34	4·1	13	So.	10:16	9·5	21:52	12·0	3:43	2·3	15:29	4·7
14	F.	9:41	9·5	21:49	11·1	3:24	3·5	15:21	4·0	14	M.	11:06	10·1	22:40	12·5	4:35	1·5	16:24	4·7
15	Sa.	10:32	9·9	22:29	11·7	4:12	2·6	16:06	4·1	15	Tu.	11:55	10·5	23:29	12·8	5:26	0·8	17:18	4·6
16	So.	11:20	10·3	23:08	12·2	4:59	1·8	16:50	4·1	16	W.	.....	.....	12:43	10·8	6:16	0·3	18:11	4·4
17	M.	12:07	10·6	23:48	12·5	5:45	1·1	17:35	4·2	17	Th.	0:19	12·8	13:30	11·1	7:05	0·1	19:05	4·3
18	Tu.	.....	.....	12:53	10·8	6:31	0·6	18:22	4·2	18	F.	1:09	12·6	14:17	11·3	7:54	0·2	20:01	4·2
19	W.	0:31	12·7	13:40	10·9	7:19	0·3	19:12	4·3	19	Sa.	1:58	12·2	15:05	11·3	8:42	0·4	20:59	4·1
20	Th.	1:17	12·6	14:29	10·9	8:09	0·3	20:06	4·5	20	So.	2:48	11·6	15:54	11·2	9:31	1·1	21:59	4·1
21	F.	2:07	12·2	15:21	10·8	9:01	0·6	21:06	4·7	21	M.	3:42	10·8	16:44	11·0	10:21	2·0	23:01	4·2
22	Sa.	3:00	11·6	16:16	10·5	9:54	1·2	22:11	4·8	22	Tu.	4:46	9·9	17:37	10·8	11:12	3·0	.....	.....
23	So.	3:57	10·8	17:15	10·4	10:49	1·9	23:20	4·9	23	W.	6:02	9·2	18:35	10·7	0:04	4·2	12:05	3·9
24	M.	5:04	10·0	18:18	10·4	11:46	2·7	.....	....	24	Th.	7:24	8·8	19:36	10·8	1:10	4·1	13:01	4·7
24	Tu.	6:28	9·4	19:24	10·5	0:32	4·8	12:44	3·5	25	F.	8:41	8·8	20:32	10·9	2:18	3·8	13:59	5·3
26	W.	7:51	9·2	20:22	10·8	1:42	4·4	13:42	4·1	26	Sa.	9:46	9·0	21:21	11·0	3:18	3·4	14:55	5·7
27	Th.	9:02	9·4	21:12	11·1	2:45	3·9	14:39	4·5	27	So.	10:39	9·3	22:02	11·2	4:09	3·0	15:46	5·8
28	F.	10:01	9·6	21:55	11·3	3:41	3·2	15:31	4·8	28	M.	11:22	9·6	22:41	11·3	4:53	2·6	16:31	5·8
29	Sa.	10:50	9·8	22:31	11·5	4:30	2·7	16:17	5·1	29	Tu.	12:00	9·8	23:19	11·3	5:31	2·3	17:14	5·7
30	So.	11:33	10·0	23:06	11·6	5:12	2·3	16:57	5·3	30	W.	12:37	9·9	23:56	11·3	6:07	2·0	17:55	5·6
31	M.	12:14	10·0	23:40	11·6	5:51	2·1	17:36	5·3										

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours, from midnight to midnight.

The HEIGHT is in feet and tenths of a foot, measured from the level of extreme Low Water.

TIDAL DIFFERENCES for the West coast of Vancouver island, are given on page 5.

Date.	Day.	JULY.								AUGUST.									
		HIGH WATER.				LOW WATER.				HIGH WATER.				LOW WATER.					
		Time. H't.	H. M. FT.	Time. H't.	H. M. FT.	Time. H't.	H. M. FT.	Time. H't.	H. M. FT.	Time. H't.	H. M. FT.	Time. H't.	H. M. FT.	Time. H't.	H. M. FT.	Time. H't.			
1	Th.	... ....	13:13	10·0	6:42	1·8	18:35	5·3	1	Fr.	0:59	11·0	13:47	10·4	7:28	1·9	19:32	4·1	
2	F.	0:33	11·2	13:48	10·1	7:17	1·7	19:14	5·1	2	M.	1:34	10·9	14:18	10·6	7:58	2·0	20:09	3·8
3	Sa.	1:09	11·1	14:22	10·2	7:51	1·7	19:53	4·9	3	Tu.	2:10	10·6	14:50	10·7	8:27	2·4	20:49	3·6
4	S.	1:46	10·9	14:55	10·2	8:24	1·8	20:33	4·7	4	W.	2:49	10·2	15:24	10·8	8:58	2·8	21:36	3·5
5	M.	2:24	10·5	15:27	10·2	8:58	2·1	21:16	4·5	5	Th.	3:35	9·8	16:01	10·9	9:34	3·5	22:30	3·5
6	Tu.	3:04	10·1	16:01	10·2	9:33	2·6	22:05	4·4	6	F.	4:27	9·2	16:42	10·9	10:16	4·2	23:32	3·5
7	W.	3:49	9·6	16:38	10·3	10:10	3·2	23:02	4·3	7	Sa.	5:35	8·6	17:34	10·8	11:09	4·9	.....	
8	Th.	4:47	9·0	17:24	10·4	10:52	3·9	.....		8	S.	7:02	8·4	18:43	10·9	0:42	3·3	12:18	5·4
9	F.	6:01	8·5	18:21	10·6	0:06	4·1	11:44	4·5	9	M.	8:30	8·7	20:02	11·2	1:56	3·0	13:36	5·6
10	Sa.	7:28	8·4	19:26	11·0	1:16	3·7	12:48	5·0	10	Tu.	9:39	9·3	21:12	11·6	3:03	2·4	14:50	5·4
11	S.	8:50	8·8	20:32	11·5	2:24	3·1	13:57	5·2	11	W.	10:34	10·1	22:13	12·0	4:02	1·8	15:57	4·9
12	M.	10:01	9·3	21:32	12·0	3:25	2·3	15:02	5·2	12	Th.	11:22	10·7	23:08	12·3	4:56	1·3	16:57	4·3
13	Tu.	10:56	10·0	22:28	12·4	4:21	1·5	16:04	5·0	13	F.	.....	12:06	11·3	5:46	1·0	17:52	3·6	
14	W.	11:44	10·6	23:21	12·7	5:12	0·9	17:03	4·7	14	Sa.	0:00	12·4	12:48	11·7	6:32	1·0	18:43	3·1
15	Th.	.....	12:30	11·0	6:02	0·5	18:00	4·2	15	S.	0:50	12·3	13:29	11·9	7:15	1·2	19:33	2·7	
16	F.	0:12	12·7	13:14	11·4	6:51	0·3	18:56	3·8	16	M.	1:39	12·0	14:09	12·0	7:57	1·6	20:22	2·5
17	Sa.	1:01	12·6	13:57	11·6	7:38	0·4	19:51	3·5	17	Tu.	2:27	11·5	14:48	11·9	8:38	2·2	21:10	2·5
18	S.	1:49	12·2	14:40	11·7	8:23	0·8	20:45	3·3	18	W.	3:14	10·8	15:28	11·6	9:18	3·1	21:59	2·8
19	M.	2:39	11·6	15:24	11·6	9:07	1·5	21:38	3·3	19	Th.	4:03	10·0	16:10	11·2	9:59	4·0	22:50	3·3
20	Tu.	3:32	10·8	16:09	11·4	9:50	2·3	22:32	3·5	20	F.	5:00	9·2	16:55	10·7	10:43	4·9	23:47	3·7
21	W.	4:28	10·0	16:57	11·1	10:34	3·4	23:29	3·7	21	Sa.	6:09	8·7	17:48	10·2	11:33	5·7	.....	
22	Th.	5:33	9·1	17:49	10·8	11:21	4·4	.....		22	S.	7:34	8·5	18:51	9·9	0:52	4·0	12:35	6·2
23	F.	6:51	8·6	18:45	10·5	0:32	3·9	12:16	5·3	23	M.	8:50	8·7	20:02	9·8	1:59	3·9	13:48	6·4
24	Sa.	8:14	8·5	19:45	10·4	1:42	3·9	13:17	5·9	24	Tu.	9:50	9·1	21:08	10·0	3:01	3·7	14:57	6·2
[25]	S.	9:22	8·7	20:43	10·5	2:45	3·7	14:20	6·2	25	W.	10:34	9·5	21:59	10·3	3:54	3·3	15:53	5·7
26	M.	10:18	9·1	21:34	10·6	3:40	3·3	15:21	6·1	26	Th.	11:09	9·8	22:42	10·5	4:38	3·0	16:39	5·2
27	Tu.	11:03	9·4	22:19	10·8	4:27	2·9	16:16	5·9	27	F.	11:42	10·1	23:22	10·7	5:16	2·7	17:20	4·7
28	W.	11:40	9·7	23:02	10·9	5:08	2·6	17:02	5·6	28	Sa.	.....	12:13	10·4	5:51	2·4	17:59	4·2	
29	Th.	12:14	9·9	23:43	11·0	5:46	2·2	17:41	5·2	29	S.	0:01	10·8	12:42	10·6	6:24	2·4	18:37	3·6
30	F.	.....	12:46	10·1	6:22	2·0	18:19	4·8	30	M.	0:39	10·9	13:10	10·8	6:55	2·4	19:14	3·1	
31	Sa.	0:22	11·0	13:17	10·2	6:56	1·9	18:56	4·4	31	Tu.	1:17	10·9	13:39	11·1	7:25	2·6	19:51	2·8

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours, from midnight to midnight.

The HEIGHT is in feet and tenths of a foot, measured from the level of extreme Low Water.

TIDAL DIFFERENCES for the West coast of Vancouver island, are given on page 5.

## TIDE TABLES.—CLAYOQUOT, B.C.—1920.

Date.	Day.	SEPTEMBER.								Date.	Day.	OCTOBER.									
		HIGH WATER.				LOW WATER.						HIGH WATER.				LOW WATER.					
		Time.	H'P.t.	Time.	H'P.t.	Time.	H'P.t.	Time.	H'P.t.			Time.	H'P.t.	Time.	H'P.t.	Time.	H'P.t.	Time.	H'P.t.		
1	W.	H. M.	FT.	H. M.	FT.	H. M.	FT.	H. M.	FT.	1	F.	H. M.	FT.	H. M.	FT.	H. M.	FT.	H. M.	FT.		
2	Th.	1:56	10·7	14:09	11·3	7:56	2·9	20:29	2·6	2	Sa.	3:14	10·3	14:58	11·8	8:46	4·7	21:45	2·1		
3	F.	2:36	10·4	14:42	11·4	8:28	3·4	21:11	2·5	3	Su.	4:10	9·8	15:47	11·4	9:39	5·2	22:43	2·5		
4	Sa.	3:19	9·9	15:19	11·4	9:03	4·0	22:00	2·7	4	M.	5:16	9·5	16:46	10·8	10:44	5·7	23:50	2·9		
5	Su.	4:14	9·4	16:02	11·2	9:48	4·7	23:00	2·9	5	Tu.	6:31	9·4	18:00	10·3	....	....	12:03	5·9		
6	M.	5:23	8·9	17:00	10·9	10:48	5·3	....	....	6	W.	7:48	9·7	19:35	10·2	1:02	3·2	13:30	5·7		
7	Tu.	6:47	8·7	18:18	10·6	0:13	3·1	12:04	5·7	7	Th.	8:53	10·3	20:56	10·5	2:12	3·2	14:46	5·0		
8	W.	8:16	9·0	19:46	10·7	1:28	3·0	13:29	5·7	8	F.	9:46	11·0	22:00	10·9	3:14	3·2	15:49	4·1		
9	Th.	9:26	9·7	21:04	11·0	2:38	2·7	14:48	5·3	9	Sa.	10:29	11·6	22:53	11·3	4:07	3·2	16:42	3·3		
10	F.	11:00	11·1	23:00	11·8	4:33	2·1	16:52	3·7	10	Su.	11:08	12·0	23:41	11·4	4:54	3·3	17:30	2·6		
11	Sa.	11:39	11·6	23:49	11·9	5:21	2·0	17:41	3·0	11	M.	11:45	12·3	....	....	5:37	3·5	18:14	2·1		
12	Su.	.....	.....	12:17	12·0	6:04	2·1	18:28	2·4	12	Tu.	0:27	11·5	12:21	12·4	6:17	3·9	18:55	1·9		
13	M.	0:37	11·9	12:56	12·2	6:46	2·4	19:14	2·1	13	W.	1:11	11·3	12:56	12·4	6:56	4·2	19:35	1·9		
14	Tu.	1:24	11·7	13:35	12·2	7:27	2·8	19:59	2·0	14	Th.	1:54	11·1	13:31	12·2	7:34	4·6	20:14	2·0		
15	W.	2:10	11·3	14:13	12·0	8:07	3·4	20:42	2·1	15	F.	2:36	10·8	14:06	11·8	8:12	5·0	20:54	2·3		
16	Th.	2:55	10·7	14:50	11·7	8:46	4·0	21:26	2·4	16	Sa.	3:19	10·4	14:42	11·4	8:51	5·4	21:36	2·7		
17	F.	3:42	10·2	15:27	11·3	9:26	4·7	22:13	2·9	17	Su.	4:04	10·0	15:21	10·8	9:33	5·8	22:21	3·2		
18	Sa.	4:32	9·5	16:06	10·7	10:09	5·4	23:04	3·4	18	M.	4:54	9·6	16:05	10·2	10:26	6·2	23:14	3·7		
19	Su.	5:30	9·0	16:50	10·1	11:01	6·0	....	....	19	Tu.	5:58	9·3	17:03	9·6	11:33	6·5	....	....		
20	M.	6:45	8·8	17:56	9·5	0:03	3·9	12:05	6·4	20	W.	7:14	9·4	18:22	9·1	0:14	4·1	12:47	6·4		
21	Tu.	8:08	8·9	19:22	9·3	1:06	4·1	13:17	6·4	21	Th.	8:14	9·6	19:51	9·2	1:13	4·2	13:54	5·9		
22	W.	9:09	9·3	20:39	9·5	2:10	4·0	14:25	6·1	22	F.	9:01	10·0	21:01	9·5	2:08	4·3	14:52	5·3		
23	Th.	9:51	9·7	21:37	9·8	3:06	3·8	15:23	5·5	23	Sa.	9:40	10·5	21:54	9·9	2:59	4·2	15:42	4·5		
24	F.	10:27	10·1	22:23	10·2	3:54	3·5	16:12	4·8	24	Su.	10:15	11·0	22:39	10·3	3:45	4·2	16:26	3·7		
25	Sa.	10:59	10·5	23:04	10·5	4:35	3·3	16:54	4·1	25	M.	10:49	11·5	23:23	10·7	4:25	4·2	17:09	2·9		
26	Su.	11:30	10·9	23:44	10·8	5:12	3·2	17:34	3·1	26	Tu.	11:23	12·0	....	....	5:04	4·2	17:51	2·3		
27	M.	.....	.....	12:00	11·2	5:47	3·2	18:13	2·8	27	W.	0:06	10·9	11:57	12·3	5:42	4·3	18:33	1·7		
28	Tu.	0:23	10·9	12:31	11·5	6:20	3·3	18:51	2·3	28	Th.	0:49	11·0	12:32	12·6	6:21	4·5	19:16	1·4		
29	W.	1:03	10·9	13:03	11·8	6:52	3·5	19:30	1·9	29	F.	1:34	11·1	13:09	12·7	7:02	4·7	20:00	1·3		
30	Th.	1:44	10·8	13:58	12·0	7:25	3·8	20:11	1·7	30	Sa.	2:21	11·0	13:51	22·6	7:47	5·0	20:45	1·3		
										31	Su.	3:11	10·8	14:39	12·3	8:38	5·3	21:33	1·7		

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours, from midnight to midnight.

The HEIGHT is in feet and tenths of a foot, measured from the level of extreme Low Water.

TIDAL DIFFERENCES for the West coast of Vancouver island, are given on page 5.

Date.	Day.	NOVEMBER.								DECEMBER.							
		HIGH WATER.				LOW WATER.				HIGH WATER.				LOW WATER.			
		Time. H't.	H. M. FT.	Time. H't.	H. M. FT.	Time. H't.	H. M. FT.	Time. H't.	H. M. FT.	Time. H't.	H. M. FT.	Time. H't.	H. M. FT.	Time. H't.	H. M. FT.	Time. H't.	
1	M.	4:06	10·6	15:33	11·7	9:36	5·6	22:29	2·3	1	W.	4:42	11·4	16:27	11·1	10:45	5·5
2	Tu.	5:07	10·4	16:34	10·9	10:44	5·8	23:32	3·0	2	Th.	5:42	11·4	17:42	10·3	11:57	5·4
3	W.	6:12	10·4	17:52	10·3	.....	.....	12:03	5·8	3	F.	6:45	11·5	19:09	9·9	0:08	4·0
4	Th.	7:18	10·7	19:28	10·0	0:39	3·5	13:28	5·5	4	Sa.	7:46	11·7	20:27	10·0	1:08	4·8
5	F.	8:22	11·1	20:46	10·2	1:44	4·0	14:38	4·8	5	S.	8:41	12·0	21:33	10·2	2:07	5·4
6	Sa.	9:15	11·6	21:48	10·6	2:41	4·3	15:35	4·0	6	M.	9:28	12·3	22:30	10·5	3:02	5·8
7	S.	9:59	12·1	22:40	10·9	3:33	4·5	16:25	3·2	7	Tu.	10:11	12·5	23:19	10·7	3:52	6·0
8	M.	10:38	12·4	23:28	11·1	4:21	4·8	17:11	2·7	8	W.	10:51	12·6	.....	.....	4:38	6·3
9	Tu.	11:16	12·6	.....	.....	5:06	5·1	17:54	2·3	9	Th.	0:03	10·9	11:28	12·6	5:21	6·4
10	W.	0:13	11·1	11:53	12·6	5:48	5·3	18:36	2·2	10	F.	0:44	11·0	12:04	12·5	6:01	6·4
11	Th.	0:56	11·1	12:29	12·5	6:29	5·5	19:16	2·1	11	Sa.	1:23	11·1	12:39	12·3	6:40	6·3
12	F.	1:37	11·0	13:04	12·3	7:09	5·7	19:54	2·2	12	S.	2:00	11·1	13:14	12·0	7:20	6·2
13	Sa.	2:17	10·9	13:39	12·0	7:48	5·8	20:31	2·3	13	M.	2:36	11·0	13:50	11·7	8:02	6·1
14	S.	2:58	10·7	14:15	11·6	8:28	6·0	21:08	2·6	14	Tu.	3:11	11·0	14:28	11·3	8:46	6·0
15	M.	3:41	10·5	14:53	11·1	9:11	6·1	21:47	3·0	15	W.	3:47	10·9	15:08	10·8	9:33	6·0
16	Tu.	4:26	10·3	15:36	10·5	10:00	6·3	22:29	3·5	16	Th.	4:25	10·8	15:53	10·3	10:23	6·0
17	W.	5:14	10·1	16:27	9·9	10:58	6·4	23:17	4·0	17	F.	5:07	10·8	16:51	9·7	11:21	5·9
18	Th.	6:06	10·1	17:33	9·3	.....	.....	12:04	6·3	18	Sa.	5:56	10·9	18:06	9·3	.....	12:26
19	F.	7:01	10·2	18:57	9·1	0:13	4·4	13:13	5·9	19	S.	6:51	11·1	19:29	9·2	0:11	5·2
20	Sa.	7:57	10·6	20:16	9·3	1:13	4·8	14:15	5·2	20	M.	7:47	11·5	20:43	9·5	1:08	5·6
21	S.	8:45	11·1	21:21	9·7	2:08	5·0	15:08	4·4	21	Tu.	8:40	12·0	21:47	9·9	2:05	5·8
22	M.	9:28	11·7	22:15	10·2	2:56	5·1	15:55	3·6	22	W.	9:30	12·6	22:44	10·5	3:01	5·9
23	Tu.	10:08	12·2	23:03	10·6	3:42	5·2	16:41	2·8	23	Th.	10:19	13·1	23:36	11·0	3:56	6·0
24	W.	10:47	12·7	23:50	11·0	4:27	5·2	17:26	2·1	24	F.	11:07	13·4	.....	.....	4:50	5·8
25	Th.	11:27	13·1	.....	.....	5:13	5·3	18:11	1·5	25	Sa.	0:24	11·4	11:54	13·6	5:44	5·6
26	F.	0:36	11·2	12:09	13·3	6:00	5·3	18:57	1·2	26	S.	1:10	11·8	12:41	13·6	6:39	5·3
27	Sa.	1:22	11·4	12:54	13·3	6:49	5·3	19:44	1·0	27	M.	1:55	12·1	13:29	13·3	7:34	5·1
28	S.	2:09	11·5	13:42	13·1	7:41	5·3	20:33	1·2	28	Tu.	2:39	12·3	14:19	12·8	8:30	4·9
29	M.	2:57	11·6	14:32	12·6	8:36	5·4	21:24	1·6	29	W.	3:24	12·3	15:14	12·0	9:27	4·8
30	Tu.	3:47	11·5	15:26	11·9	9:37	5·4	22:16	2·3	30	Th.	4:12	12·2	16:16	11·2	10:27	4·8
										31	F.	5:04	12·0	17:26	10·4	11:30	4·8

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours, from midnight to midnight.

The HEIGHT is in feet and tenths of a foot, measured from the level of extreme Low Water.

TIDAL DIFFERENCES for the West coast of Vancouver Island, are given on page 5.

## TIDE TABLES.—PORT SIMPSON, B.C.—1920.

Date.	Day.	JANUARY.								FEBRUARY.									
		HIGH WATER.				LOW WATER.				HIGH WATER.				LOW WATER.					
		Time.	H't.	Time.	H't.	Time.	H't.	Time.	H't.	Time.	H't.	Time.	H't.	Time.	H't.	Time.	H't.		
1	Th.	8:52	19·8	21:56	16·5	2:11	8·6	15:42	5·8	1	8·9	10:43	20·7	23:49	18·6	4:30	8·5	17:37	3·3
2	F.	9:54	20·7	23:02	17·5	3:26	8·8	16:50	4·3	2	M.	11:39	21·5	.....	.....	5:33	7·5	18:28	2·1
3	Sa.	10:52	21·7	.....	.....	4:39	8·3	17:48	2·8	3	Tu.	0:38	19·8	12:30	22·1	6:29	6·3	19:14	1·5
4	S.	0:01	18·8	11:46	22·6	5:44	7·5	18:38	1·7	4	W.	1:23	20·7	13:18	22·3	7:20	5·4	19:56	1·3
5	M.	0:53	20·0	12:37	23·2	6:41	6·8	19:23	0·9	5	Th.	2:04	21·3	14:04	22·1	8:06	4·7	20:36	1·8
6	Tu.	1:40	20·9	13:27	23·3	7:32	6·2	20:06	0·8	6	F.	2:43	21·6	14:49	21·5	8:50	4·5	21:14	2·6
7	W.	2:25	21·4	14:16	22·9	8:20	5·9	20:48	1·2	7	Sa.	3:22	21·4	15:33	20·4	9:33	4·8	21:50	3·9
8	Th.	3:09	21·5	15:06	21·9	9:07	5·8	21:30	2·1	8	S.	4:02	20·9	16:18	19·1	10:17	5·3	22:25	5·3
9	F.	3:54	21·2	15:57	20·7	9:55	6·1	22:13	3·5	9	M.	4:44	20·2	17:06	17·7	11:03	6·1	23:02	6·8
10	Sa.	4:41	20·7	16:49	19·2	10:45	6·6	22:57	5·0	10	Tu.	5:28	19·4	18:00	16·5	11:53	7·0	23:44	8·3
11	S.	5:30	20·1	17:44	17·7	11:38	7·2	23:43	6·6	11	W.	6:18	18·5	19:06	15·5	.....	.....	12:51	7·6
12	M.	6:21	19·5	18:45	16·5	.....	.....	12:37	7·7	12	Th.	7:15	17·9	20:26	15·0	0:36	9·6	14:01	7·9
13	Tu.	7:14	19·0	19:54	15·6	0:33	8·0	13:45	8·0	13	F.	8:16	17·5	21:45	15·2	1:45	10·5	15:24	7·6
14	W.	8:09	18·6	21:10	15·4	1:32	9·3	15:01	7·8	14	Sa.	9:18	17·5	22:49	15·9	3:09	10·8	16:32	6·9
15	Th.	9:05	18·5	22:21	15·7	2:41	10·1	16:08	7·2	15	S.	10:19	18·0	23:38	16·7	4:22	10·4	17:24	5·9
16	F.	10:00	18·7	23:22	16·4	3:50	10·4	17:06	6·4	16	M.	11:12	18·7	.....	.....	5:22	9·6	18:02	5·0
17	Sa.	10:52	19·1	.....	.....	4:53	10·3	17:54	5·5	17	Tu.	0:17	17·7	11:56	19·6	6:07	8·5	18:36	4·1
18	S.	0:12	17·1	11:40	19·6	5:45	9·8	18:32	4·7	18	W.	0:48	18·6	12:36	20·3	6:43	7·4	19:08	3·4
19	M.	0:52	17·9	12:20	20·2	6:28	9·2	19:05	4·0	19	Th.	1:17	19·4	13:13	20·8	7:18	6·4	19:39	3·1
20	Tu.	1:23	18·6	12:57	20·7	7:05	8·5	19:36	3·5	20	F.	1:46	20·0	13:49	21·0	7:52	5·5	20:10	3·1
21	W.	1:51	19·1	13:32	20·9	7:40	7·9	20:06	3·3	21	Sa.	2:16	20·5	14:26	20·8	8:27	4·9	20:42	3·4
22	Th.	2:18	19·5	14:06	20·9	8:14	7·4	20:37	3·3	22	S.	2:48	20·8	15:05	20·3	9:04	4·6	21:16	4·1
23	F.	2:47	19·7	14:42	20·6	8:48	7·0	21:09	3·6	23	M.	3:24	20·9	15:47	19·4	9:44	4·5	21:53	4·9
24	Sa.	3:19	19·8	15:21	20·0	9:23	6·7	21:43	4·1	24	Tu.	4:04	20·6	16:36	18·2	10:29	4·8	22:33	6·0
25	S.	3:56	19·8	16:06	19·1	10:02	6·5	22:20	4·9	25	W.	4:50	20·2	17:36	17·1	11:21	5·2	23:19	7·3
26	M.	4:38	19·8	16:57	18·1	10:49	6·5	23:01	5·8	26	Th.	5:43	19·5	18:48	16·1	.....	.....	12:26	5·8
27	Tu.	5:26	19·6	17:56	17·0	11:45	6·6	23:46	6·9	27	F.	6:48	18·9	20:10	15·8	0:18	8·5	13:43	6·0
28	W.	6:18	19·5	19:06	16·2	.....	.....	12:52	6·7	28	Sa.	8:08	18·6	21:33	16·2	1:36	9·3	15:08	5·6
29	Th.	7:18	19·4	20:26	15·9	0:38	8·0	14:08	6·5	29	S.	9:25	18·8	22:44	17·2	3:08	9·2	16:22	4·8
30	F.	8:27	19·5	21:47	16·2	1:46	8·9	15:31	5·7										
31	Sa.	9:39	19·9	22:54	17·3	3:15	9·2	16:39	4·5										

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours, from midnight to midnight.

The HEIGHT is in feet and tenths of a foot, measured from the level of extreme Low Water.

TIDAL DIFFERENCES for the northern part of the coast of British Columbia and for the Queen Charlotte islands, are given on pages 6 and 7. Tables and other data for the time of SLACK WATER in the various narrows, follow the Tide Tables.

Date.	Day.	MARCH.								APRIL.									
		HIGH WATER.		LOW WATER.				HIGH WATER.		LOW WATER.									
		Time.	H't.	Time.	H't.	Time.	H't.	Time.	H't.	Time.	H't.	Time.	H't.	Time.	H't.	Time.	H't.		
1	M.	10:34	19·4	23:39	18·5	4:31	8·2	17:24	3·8	1	Th.	.....	12:13	19·7	6:14	4·8	18:29	4·2	
2	Tu.	11:33	20·2	.....	.....	5:36	7·0	18:14	3·0	2	F.	0:32	20·6	12:56	20·1	6:55	3·8	19:05	4·3
3	W.	0:22	19·7	12:24	21·0	6:27	5·6	18:54	2·6	3	Sa.	1:07	21·1	13:35	20·2	7:32	3·2	19:39	4·7
4	Th.	0:59	20·7	13:08	21·2	7:10	4·4	19:31	2·5	4	SS.	1:40	21·3	14:12	19·9	8:07	3·0	20:12	5·4
5	F.	1:35	21·3	13:49	21·2	7:50	3·8	20:06	3·0	5	M.	2:12	21·2	14:48	19·3	8:41	3·3	20:44	6·3
6	Sa.	2:10	21·5	14:29	20·7	8:29	3·5	20:40	3·8	6	Tu.	2:44	20·8	15:25	18·5	9:16	3·9	21:16	7·2
7	SS.	2:44	21·3	15:09	19·9	9:07	3·8	21:13	4·9	7	W.	3:18	20·1	16:04	17·7	9:53	4·6	21:49	8·1
8	M.	3:19	20·8	15:50	18·8	9:44	4·4	21:47	6·1	8	Th.	3:55	19·1	16:50	16·8	10:33	5·6	22:26	9·1
9	Tu.	3:56	20·1	16:34	17·7	10:23	5·3	22:23	7·4	9	F.	4:36	18·2	17:48	16·0	11:18	6·3	23:15	10·0
10	W.	4:36	19·2	17:26	16·5	11:04	6·2	23:02	8·6	10	Sa.	5:30	17·1	18:56	15·5	.....	.....	12:14	7·0
11	Th.	5:22	18·3	18:29	15·6	11:56	7·0	23:50	9·8	11	SS.	6:38	16·4	20:08	15·6	0:19	10·5	13:20	7·4
12	F.	6:18	17·2	19:41	15·0	.....	.....	13:02	7·6	12	M.	7:54	16·1	21:12	16·1	1:36	10·5	14:31	7·4
13	Sa.	7:24	16·6	20:59	15·2	0:56	10·6	14:24	7·7	13	Tu.	9:06	16·4	22:05	17·0	3:05	9·8	15:34	7·0
14	SS.	8:37	16·6	22:03	15·8	2:28	10·8	15:39	7·3	14	W.	10:07	17·1	22:48	18·1	4:12	8·5	16:27	6·3
15	M.	9:46	17·1	22:54	16·7	3:51	10·2	16:37	6·5	15	Th.	11:00	18·1	23:25	19·3	5:04	6·9	17:12	5·6
16	Tu.	10:45	18·0	23:35	17·7	4:53	9·0	17:23	5·6	16	F.	11:47	19·1	23:59	20·5	5:47	5·2	17:53	5·0
17	W.	11:33	18·9	.....	.....	5:39	7·6	18:01	4·7	17	Sa.	.....	12:31	20·0	6:27	3·7	18:33	4·5	
18	Th.	0:09	18·9	12:14	19·8	6:16	6·2	18:35	4·0	18	SS.	0:34	21·6	13:13	20·6	7:06	2·4	19:12	4·4
19	F.	0:41	19·9	12:53	20·5	6:52	4·8	19:08	3·6	19	M.	1:12	22·4	13:54	20·8	7:46	1·5	19:51	4·5
20	Sa.	1:12	20·8	13:31	20·9	7:27	3·8	19:41	3·5	20	Tu.	1:52	22·7	14:36	20·5	8:28	1·2	20:31	5·1
21	SS.	1:44	21·5	14:10	20·9	8:04	3·0	20:15	3·8	21	W.	2:34	22·5	15:24	19·8	9:12	1·4	21:15	6·0
22	M.	2:18	21·9	14:50	20·5	8:44	2·6	20:51	4·5	22	Th.	3:19	21·8	16:21	18·9	10:00	2·1	22:04	7·0
23	Tu.	2:55	21·8	15:34	19·6	9:28	2·7	21:31	5·4	23	F.	4:12	20·6	17:26	18·0	10:56	3·2	23:02	8·0
24	W.	3:36	21·3	16:27	18·5	10:16	3·3	22:17	6·6	24	Sa.	5:13	19·2	18:36	17·5	11:59	4·3	.....	.....
25	Th.	4:25	20·5	17:30	17·3	11:09	4·2	23:11	7·8	25	SS.	6:26	18·0	19:49	17·4	0:12	8·8	13:08	5·2
26	F.	5:24	19·3	18:44	16·5	.....	.....	12:11	5·9	26	M.	7:47	17·2	21:00	17·7	1:36	8·9	14:22	5·8
27	Sa.	6:36	18·3	20:06	16·3	0:17	8·9	13:26	5·6	27	Tu.	9:10	17·1	22:00	18·3	3:08	8·1	15:33	6·0
28	SS.	7:56	17·7	21:24	16·8	1:36	9·4	14:51	5·7	28	W.	10:19	17·4	22:48	19·0	4:21	6·9	16:32	6·0
29	M.	9:18	17·7	22:27	17·7	3:09	8·9	16:04	5·3	29	Th.	11:16	17·9	23:28	19·8	5:15	5·5	17:20	6·0
30	Tu.	10:28	18·3	23:15	18·8	4:28	7·6	17:02	4·8	30	F.	.....	12:03	18·5	6:01	4·5	18:02	6·1	
31	W.	11:26	19·1	23:55	19·9	5:27	6·1	17:49	4·4										

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours, from midnight to midnight.

The HEIGHT is in feet and tenths of a foot measured from the level of extreme Low Water.

TIDAL DIFFERENCES for the northern part of the coast of British Columbia and for the Queen Charlotte islands, are given on pages 6 and 7. Tables and other data for the time of SLACK WATER in the various narrows, follow the Tide Tables.

## TIDE TABLES.—PORT SIMPSON, B.C.—1920.

Date.	Day.	MAY.								JUNE.								
		HIGH WATER.				LOW WATER.				HIGH WATER.				LOW WATER.				
		Time. H't.	Time. H't.	Time. H't.	Time. H't.	Time. H't.	Time. H't.	Time. H't.	Time. H't.	Time. H't.	Time. H't.	Time. H't.	Time. H't.	Time. H't.	Time. H't.	Time. H't.	Time. H't.	
1	Sa.	0:05 20·5	12:44 18·9	6:39 3·7	18:39 6·2	1	Tu.	0:44 20·5	13:42 18·3	7:30 3·2	19:24 7·9							
2	So.	0:39 20·8	13:21 19·0	7:14 3·2	19:13 6·5	2	W.	1:19 20·5	14:17 18·4	8:02 3·1	19:59 8·0							
3	M.	1:12 21·1	13:57 19·0	7:47 3·0	19:46 6·9	3	Th.	1:53 20·4	14:52 18·2	8:34 3·2	20:33 8·2							
4	Tu.	1:44 21·0	14:32 18·8	8:19 3·1	20:18 7·4	4	F.	2:27 20·0	15:27 18·0	9:07 3·5	21:08 8·5							
5	W.	2:15 20·7	15:08 18·3	8:52 3·5	20:51 8·0	5	Sa.	3:02 19·3	16:04 17·7	9:42 4·0	21:45 8·7							
	Th.	2:48 20·0	15:46 17·7	9:27 4·0	21:26 8·6	6	So.	3:40 18·5	16:44 17·4	10:19 4·6	22:27 8·8							
7	F.	3:25 19·2	16:28 17·2	10:05 4·7	22:04 9·2	7	M.	4:27 17·6	17:29 17·2	10:59 5·2	23:18 8·9							
8	Sa.	4:07 18·3	17:18 16·7	10:47 5·5	22:50 9·7	8	Tu.	5:22 16·7	18:19 17·2	11:42 5·8	.....							
9	So.	4:55 17·3	18:16 16·3	11:33 6·2	23:46 10·0	9	W.	6:24 16·1	19:12 17·5	0:18 8·7	12:30 6·5							
10	M.	5:57 16·4	19:15 16·4	.....	12:25 6·7	10	Th.	7:32 15·7	20:06 18·0	1:26 8·2	13:24 7·0							
11	Tu.	7:06 15·9	20:13 16·7	0:53 9·9	13:24 7·0	11	F.	8:42 15·8	21:01 18·8	2:36 7·3	14:24 7·3							
12	W.	8:19 15·9	21:08 17·5	2:10 9·2	14:27 7·1	12	Sa.	9:50 16·2	21:55 19·8	3:43 6·0	15:27 7·3							
13	Th.	9:29 16·4	21:56 18·5	3:26 7·9	15:29 6·8	13	So.	10:55 17·2	22:48 20·9	4:43 4·4	16:29 7·0							
14	F.	10:30 17·3	22:40 19·7	4:28 6·3	16:24 6·5	14	M.	11:52 18·3	23:40 22·0	5:38 2·7	17:29 6·5							
15	Sa.	11:22 18·2	23:23 21·0	5:18 4·6	17:13 6·0	15	Tu.	.....	12:42 19·3	6:28 1·3	18:25 6·0							
16	So.	.....	12:11 19·2	6:03 3·0	17:59 5·6	16	W.	0:30 23·0	13:30 20·1	7:16 0·3	19:17 5·5							
17	M.	0:05 22·1	12:57 20·0	6:47 1·6	18:44 5·3	17	Th.	1:18 23·1	14:17 20·5	8:02 -0·2	20:07 5·3							
18	Tu.	0:46 22·9	13:42 20·4	7:30 0·6	19:29 5·2	18	F.	2:05 22·9	15:05 20·5	8:47 -0·1	20:56 5·5							
19	W.	1:28 23·2	14:28 20·5	8:14 0·3	20:16 5·5	19	Sa.	2:53 22·0	15:55 20·3	9:31 0·6	21:46 5·7							
20	Th.	2:14 22·9	15:18 20·2	9:00 0·5	21:05 6·1	20	So.	3:45 20·8	16:46 19·9	10:16 1·8	22:39 6·2							
21	F.	3:03 22·0	16:14 19·5	9:48 1·2	21:58 6·7	21	M.	4:44 19·3	17:39 19·4	11:05 3·3	23:38 6·6							
22	Sa.	3:57 20·7	17:14 19·0	10:39 2·3	22:56 7·4	22	Tu.	5:48 17·8	18:34 19·0	11:58 4·9	.....							
23	So.	4:59 19·2	18:16 18·6	11:35 3·7	.....	23	W.	6:57 16·6	19:31 18·6	0:47 7·0	12:56 6·4							
24	M.	6:09 17·9	19:19 18·3	0:03 7·9	12:37 4·9	24	Th.	8:08 15·6	20:29 18·4	2:02 7·0	14:01 7·6							
25	Tu.	7:26 16·8	20:19 18·3	1:20 7·9	13:45 6·0	25	F.	9:22 15·3	21:26 18·5	3:18 6·6	15:09 8·4							
26	W.	8:46 16·3	21:14 18·6	2:42 7·4	14:52 6·8	26	Sa.	10:30 15·5	22:18 18·7	4:24 6·0	16:12 8·9							
27	Th.	9:56 16·3	22:05 18·9	3:52 6·5	15:53 7·3	27	So.	11:27 16·1	23:04 19·1	5:18 5·2	17:07 8·9							
28	F.	10:55 16·6	22:50 19·4	4:51 5·5	16:46 7·6	28	M.	12:14 16·7	23:46 19·5	6:04 4·4	17:54 8·8							
29	Sa.	11:44 17·1	23:30 19·9	5:41 4·6	17:30 7·7	29	Tu.	.....	12:54 17·4	6:43 3·8	18:34 8·5							
30	So.	.....	12:26 17·6	6:22 4·0	18:10 7·8	30	W.	0:25 19·9	13:30 17·9	7:18 3·3	19:11 8·2							
31	M.	0:08 20·2	13:05 18·1	6:57 3·4	18:48 7·9													

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours, from midnight to midnight.

The HEIGHT is in feet and tenths of a foot, measured from the level of extreme Low Water.

TIDAL DIFFERENCES for the northern part of the coast of British Columbia and for the Queen Charlotte islands, are given on pages 6 and 7. Tables and other data for the time of SLACK WATER in the various narrows follow the Tide Tables.

Date,	Day	JULY.								AUGUST.							
		HIGH WATER.				LOW WATER.				HIGH WATER.				LOW WATER.			
		Time.	H't.	Time.	H't.	Time.	H't.	Time.	H't.	Time.	H't.	Time.	H't.	Time.	H't.	Time.	H't.
1 Th.		H. M.	FT.	H. M.	FT.	H. M.	FT.	H. M.	FT.	H. M.	FT.	H. M.	FT.	H. M.	FT.	H. M.	FT.
1 Th.		1:02	20·1	14:03	18·2	7:51	3·0	19:46	7·9	1:58	20·1	14:36	19·1	8:28	2·9	20:33	6·1
2 F.		1:38	20·2	14:35	18·4	8:22	2·9	20:20	7·7	2:31	19·9	15:05	19·1	8:56	3·2	21:06	5·8
3 Sa.		2:13	20·0	15:07	18·4	8:52	3·1	20:54	7·6	3:06	19·5	15:36	19·2	9:26	3·7	21:42	5·7
4 S.		2:48	19·6	15:40	18·3	9:21	3·5	21:29	7·5	3:45	18·7	16:13	19·1	9:58	4·4	22:24	5·7
5 M.		3:25	19·0	16:15	18·2	9:52	3·9	22:06	7·4	4:31	17·7	16:54	19·0	10:34	5·2	23:13	5·9
6 Tu.		4:06	18·1	16:53	18·1	10:26	4·5	22:50	7·4	5:25	16·6	17:41	18·8	11:15	6·2	.....	.....
7 W.		4:54	17·2	17:36	18·1	11:04	5·3	23:42	7·3	6:28	15·7	18:36	18·6	0:13	6·1	12:04	7·2
8 Th.		5:51	16·3	18:24	18·2	11:50	6·1	.....	.....	7:43	15·1	19:42	18·5	1:25	6·2	13:08	8·2
9 F.		6:58	15·6	19:19	18·4	0:42	7·1	12:41	6·9	9:08	15·2	20:57	18·8	2:48	5·7	14:29	8·6
10 Sa.		8:13	15·3	20:20	18·8	1:53	6·7	13:39	7·6	10:23	16·1	22:12	19·5	4:04	4·7	15:54	8·3
11 S.		9:31	15·5	21:26	19·5	3:14	5·8	14:52	8·0	11:24	17·4	23:18	20·5	5:08	3·4	17:08	7·1
12 M.		10:41	16·3	22:28	20·4	4:26	4·5	16:09	7·8	12:14	18·8	6:03	2·1	18:09	5·8	.....	.....
13 Tu.		11:41	17·5	23:26	21·4	5:26	2·9	17:18	7·1	1:13	21·4	12:58	20·0	6:50	1·2	19:00	4·6
14 W.		.....	.....	12:32	18·8	6:17	1·5	18:18	6·1	1:00	21·9	13:39	21·0	7:32	0·8	19:45	3·7
15 Th.		0:20	22·2	13:18	19·9	7:04	0·5	19:11	5·2	1:45	22·0	14:19	21·3	8:12	0·9	20:29	3·2
16 F.		1:10	22·7	14:02	20·6	7:48	-0·1	19:59	4·6	2:29	21·6	14:58	21·4	8:51	1·7	21:12	3·3
17 Sa.		1:58	22·5	14:45	21·0	8:31	0·0	20:46	4·3	3:14	20·7	15:38	21·0	9:29	2·9	21:56	3·8
18 S.		2:45	22·0	15:29	21·0	9:13	0·6	21:33	4·4	4:00	19·4	16:20	20·2	10:06	4·4	22:42	4·7
19 M.		3:33	20·8	16:14	20·5	9:55	2·0	22:21	4·9	4:49	18·0	17:05	19·4	10:45	5·9	23:32	5·7
20 Tu.		4:23	19·3	17:02	19·8	10:38	3·5	23:12	5·6	5:44	16·5	17:54	18·0	11:29	7·5	.....	.....
21 W.		5:18	17·8	17:52	19·2	11:23	5·2	.....	.....	6:48	15·4	18:51	17·5	0:33	6·7	12:20	9·0
22 Th.		6:18	16·4	18:45	18·5	0:10	6·3	12:12	6·8	8:05	14·8	19:56	17·0	1:46	7·2	13:26	10·0
23 F.		7:27	15·3	19:42	17·9	1:17	6·8	13:08	8·3	9:25	14·8	21:05	16·8	3:03	7·3	14:53	10·3
24 Sa.		8:44	14·7	20:42	17·6	2:32	6·9	14:15	9·4	10:32	15·4	22:12	17·2	4:11	6·8	16:16	10·0
25 S.		10:03	14·8	21:43	17·7	3:46	6·6	15:32	9·7	11:25	16·2	23:08	17·9	5:07	6·0	17:18	9·2
26 M.		11:07	15·5	22:42	18·1	4:49	5·9	16:45	9·6	12:06	17·2	23:51	18·7	5:52	5·1	18:02	8·1
27 Tu.		11:57	16·3	23:32	18·5	5:41	5·1	17:44	9·2	12:38	18·1	6:27	4·2	18:36	7·0	.....	.....
28 W.		.....	.....	12:38	17·1	6:23	4·3	18:24	8·5	0:28	19·5	13:07	18·9	6:58	3·7	19:09	6·0
29 Th.		0:13	19·1	13:12	17·7	6:57	3·6	18:58	7·7	1:04	20·1	13:35	19·5	7:28	3·3	19:41	5·2
30 F.		0:49	19·7	13:41	18·3	7:29	3·1	19:30	7·0	1:39	20·3	14:03	20·0	7:57	3·3	20:13	4·6
31 Sa.		1:24	20·0	14:08	18·7	7:59	2·8	20:01	6·5	2:14	20·3	14:32	20·3	8:27	3·6	20:46	4·2

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours, from midnight to midnight.

The HEIGHT is in feet and tenths of a foot measured from the level of extreme Low Water.

TIDAL DIFFERENCES for the northern part of the coast of British Columbia and for the Queen Charlotte islands, are given on pages 6 and 7. Tables and other data for the time of SLACK WATER in the various narrows, follow the Tide Tables.

## TIDE TABLES.—PORT SIMPSON, B.C.—1920.

Date.	Day.	SEPTEMBER.								OCTOBER.											
		HIGH WATER.				LOW WATER.				HIGH WATER.				LOW WATER.							
		Time.	H't.	Time.	H't.	Time.	H't.	Time.	H't.	Time.	H't.	Time.	H't.	Time.	H't.	Time.	H't.				
1	W.	H. M. FT.	2:51 20·0	H. M. FT.	15:03 20·4	H. M. FT.	8:58 4·1	H. M. FT.	21:23 4·1	H. M. FT.	3:13 19·8	H. M. FT.	15:12 21·4	H. M. FT.	9:09 5·7	H. M. FT.	21:48 3·2				
2	Th.	3:31 19·2	15:39 20·2	9:32 4·8	22:04 4·3	3	4:16 18·2	16:20 19·9	10:09 5·8	22:51 4·8	4	4:01 18·9	15:56 20·7	9:51 6·7	22:36 3·9	5	4:58 17·9	16:51 19·7	10:39 7·7	23:33 4·8	
3	F.	5:08 17·1	17:08 19·3	10:53 6·8	23:49 5·3	6	6:12 16·1	18:10 18·7	11:46 8·0	.....	7	6:06 17·1	17:56 18·7	11:39 8·6	.....	8	7:21 16·5	19:11 17·9	0:42 5·6	12:55 9·2	
4	Sa.	7:29 15·6	19:26 18·2	1:00 5·8	12:54 8·8	9	7:29 15·8	20:48 18·2	2:26 5·8	14:25 9·1	10	8:37 16·9	20:33 17·7	2:04 6·0	14:26 9·1	11	9:44 17·7	21:50 18·1	3:18 5·8	15:49 8·0	
5	S.	11:07 17·9	23:09 19·6	4:48 4·2	17:04 6·8	12	10:07 16·7	22:04 18·8	3:42 5·2	15:52 8·2	13	10:41 18·8	22:54 18·9	4:23 5·4	16:56 6·5	14	11:56 19·3	.....	5:18 5·0	17:50 5·0	
6	M.	11:56 19·3	.....	5:44 3·3	18:00 5·3	15	11:04 20·5	12:36 20·5	6:30 2·7	18:48 4·0	16	11:28 19·9	23:48 19·7	12:10 20·9	6:06 4·8	18:33 3·8	17	12:19 20·5	12:47 21·5	6:47 4·8	19:13 3·0
7	Tu.	0:49 21·1	13:14 21·3	7:09 2·5	19:31 3·0	18	0:49 21·1	13:51 21·7	7:47 2·7	20:12 2·6	19	1:19 20·5	13:22 21·9	7:24 5·1	19:52 2·7	20	2:00 20·4	13:56 21·8	7:59 5·6	20:30 2·8	
8	W.	2:14 21·1	14:27 21·6	8:24 3·4	20:52 2·7	21	2:14 21·1	14:27 21·6	8:24 3·4	20:52 2·7	22	2:40 20·0	14:30 21·5	8:33 6·5	21:07 3·4	23	3:19 19·3	15:05 20·8	9:07 7·4	21:43 4·3	
9	Th.	2:56 20·4	15:02 21·3	9:00 4·5	21:31 3·4	24	3:39 19·3	15:38 20·5	9:36 5·7	22:11 4·3	25	3:19 19·3	15:45 19·8	9:42 8·3	22:21 5·2	26	4:45 17·7	16:28 18·7	10:22 9·3	23:05 6·1	
10	F.	5:13 17·0	17:05 18·5	10:52 8·4	23:39 6·5	27	4:24 18·2	16:18 19·5	10:13 7·1	22:53 5·4	28	5:39 17·0	17:20 17·6	11:09 10·1	23:58 7·0	29	6:12 16·0	18:02 17·3	11:39 9·6	.....	
11	Sa.	7:22 15·4	19:10 16·5	0:38 7·3	12:44 10·4	30	7:22 15·4	19:10 16·5	0:38 7·3	12:44 10·4	31	6:42 16·4	18:24 16·6	.....	12:12 10·7	31	8:51 16·7	20:49 16·3	2:08 7·9	14:51 10·2	
12	S.	8:42 15·3	20:28 16·3	1:59 7·7	14:09 10·7	32	8:42 15·3	20:28 16·3	1:59 7·7	14:09 10·7	33	9:44 17·3	21:53 16·9	3:11 7·7	15:58 9·1	34	10:30 18·2	22:48 17·7	4:08 7·3	16:53 7·6	
13	M.	9:50 15·9	21:37 16·6	3:16 7·5	15:40 10·2	35	10:42 16·7	22:35 17·3	4:18 7·0	16:46 9·2	36	11:09 19·2	23:35 18·7	4:56 6·8	17:37 6·1	37	11:56 18·6	.....	5:46 6·4	18:16 4·7	
14	Tu.	0:04 19·2	12:27 19·6	6:20 4·8	18:43 5·2	38	11:56 18·6	.....	5:46 5·4	18:08 6·4	39	12:18 19·7	12:22 21·5	6:17 5·9	18:54 3·4	40	12:42 20·4	.....	5:38 6·3	18:16 4·7	
15	W.	0:42 20·0	12:57 20·5	6:52 4·5	19:17 4·1	41	1:19 20·5	13:28 21·1	7:24 4·3	19:51 3·3	42	1:39 20·7	13:33 22·8	7:33 5·7	20:11 1·9	43	1:55 20·6	14:00 21·6	7:57 4·5	20:26 2·8	
16	Th.	2:32 20·4	14:34 21·7	8:32 5·0	21:05 2·8	44	2:32 20·4	14:34 21·7	8:32 5·0	21:05 2·8	45	2:20 20·7	14:11 22·9	8:13 6·0	20:51 1·9	46	3:04 20·4	14:53 22·4	8:56 6·5	21:36 2·3	
17	F.	2:54 19·7	15:42 21·5	9:42 7·3	22:27 3·2	47	3:54 19·7	15:42 21·5	9:42 7·3	22:27 3·2	48	.....	.....	.....	.....	49	.....	.....	.....	.....	

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours, from midnight to midnight.

The HEIGHT is in feet and tenths of a foot, measured from the level of extreme Low Water.

TIDAL DIFFERENCES for the northern part of the coast of British Columbia and for the Queen Charlotte Islands, are given on page 6 and 7. Tables and other data for the time of SLACK WATER in the various narrows, follow the Tide Tables.

Date.	Day.	NOVEMBER.								DECEMBER.							
		HIGH WATER.				LOW WATER.				HIGH WATER.				LOW WATER.			
		Time. H't.	Time. H't.	Time. H't.	Time. H't.	Time. H't.	Time. H't.	Time. H't.	Time. H't.	Time. H't.	Time. H't.	Time. H't.	Time. H't.	Time. H't.	Time. H't.	Time. H't.	Time. H't.
1	M.	4:52 18·9	16:38 20·2	10:35 8·2	23:24 4·3					5:43 19·7	17:36 19·1	11:28 8·0	.....				
2	Tu.	5:58 18·4	17:45 18·9	11:39 8·9	.....					6:43 19·5	18:50 18·0	0:02 5·0	12:42 8·2				
3	W.	7:09 18·1	19:08 17·9	0:28 5·3	12:57 9·2					7:42 19·3	20:08 17·2	1:04 6·3	14:06 7·9				
4	Th.	8:19 18·3	20:30 17·5	1:39 6·1	14:24 8·7					8:39 19·5	21:23 17·0	2:09 7·4	15:21 7·3				
5	F.	9:22 18·8	21:44 17·6	2:52 6·6	15:42 7·6					9:33 19·7	22:30 17·1	3:15 8·1	16:26 6·3				
6	Sa.	10:16 19·5	22:48 18·1	3:58 6·8	16:44 6·3					10:24 20·1	23:26 17·6	4:19 8·5	17:21 5·4				
7	So.	11:01 20·3	23:42 18·6	4:54 6·9	17:36 5·0					11:11 20·5	.....	5:15 8·7	18:07 4·7				
8	M.	11:42 20·9	.....	5:41 7·0	18:20 4·1					0:13 18·1	11:54 20·9	6:01 8·8	18:47 4·1				
9	Tu.	0:28 19·2	12:21 21·5	6:22 7·0	19:00 3·5					0:55 18·7	12:34 21·2	6:40 8·8	19:23 3·8				
10	W.	1:09 19·5	12:58 21·8	7:00 7·3	19:37 3·2					1:34 19·0	13:11 21·3	7:17 8·7	19:57 3·7				
11	Th.	1:49 19·6	13:34 21·7	7:36 7·6	20:13 3·3					2:11 19·2	13:45 21·1	7:53 8·8	20:29 3·7				
12	F.	2:28 19·5	14:09 21·5	8:11 8·1	20:48 3·7					2:46 19·2	14:18 20·8	8:29 8·8	21:00 4·0				
13	Sa.	3:06 19·2	14:43 20·8	8:46 8·5	21:22 4·2					3:20 19·1	14:53 20·2	9:06 9·0	21:32 4·5				
14	So.	3:43 18·8	15:18 20·1	9:22 9·1	21:57 5·0					3:56 18·9	15:31 19·5	9:44 9·2	22:05 5·1				
15	M.	4:22 18·3	15:55 19·1	10:01 9·6	22:35 5·7					4:35 18·6	16:13 18·5	10:24 9·4	22:41 5·8				
16	Tu.	5:00 17·9	16:41 18·1	10:45 10·1	23:17 6·5					5:17 18·4	17:03 17·6	11:08 9·5	23:21 6·5				
17	W.	5:56 17·5	17:39 17·1	11:36 10·4	.....					6:03 18·3	18:04 16·8	11:59 9·4	.....				
18	Th.	6:52 17·3	18:46 16·5	0:05 7·2	12:39 10·4					6:53 18·3	19:13 16·2	0:08 7·2	13:01 9·1				
19	F.	7:49 17·6	20:00 16·2	0:59 7·7	13:54 9·9					7:45 18·6	20:24 16·1	1:01 7·9	14:12 8·4				
20	Sa.	8:44 18·1	21:10 16·5	2:00 8·0	15:03 8·9					8:38 19·2	21:30 16·4	1:59 8·4	15:20 7·4				
21	So.	9:36 18·8	22:11 17·2	3:04 8·2	16:02 7·6					9:32 20·0	22:32 17·2	3:00 8·7	16:23 6·0				
22	M.	10:21 19·8	23:03 18·1	3:59 8·0	16:54 6·0					10:26 21·0	23:29 18·2	4:03 8·6	17:19 4·4				
23	Tu.	11:04 21·0	23:51 19·0	4:49 7·6	17:43 4·5					11:17 22·0	.....	5:05 8·1	18:09 2·9				
24	W.	11:46 22·1	.....	5:37 7·3	18:29 3·1					12:22 23·0	.....	6:03 7·4	18:55 1·7				
25	Th.	0:38 19·9	12:27 23·0	6:24 6·8	19:14 1·9					1:09 20·3	12:54 23·5	6:55 6·7	19:40 0·9				
26	F.	1:24 20·6	13:09 23·5	7:10 6·6	19:58 1·3					1:55 21·0	13:42 23·6	7:46 6·2	20:24 0·6				
27	Sa.	2:09 20·9	13:55 23·5	7:56 6·5	20:42 1·2					2:41 21·4	14:31 23·2	8:36 5·9	21:09 1·0				
28	So.	2:56 20·9	14:40 23·0	8:44 6·8	21:27 1·6					3:28 21·4	15:22 22·1	9:25 5·9	21:55 1·9				
29	M.	3:47 20·5	15:31 22·0	9:34 7·1	22:14 2·5					4:18 21·1	16:18 20·7	10:16 6·2	22:42 3·3				
30	Tu.	4:44 20·2	16:28 20·5	10:27 7·6	23:05 3·7					5:11 20·7	17:20 19·3	11:12 6·6	23:32 4·9				
										6:06 20·2	18:27 17·9	.....	12:18 7·1				

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours, from midnight to midnight.

The HEIGHT is in feet and tenths of a foot, measured from the level of extreme Low Water.

The TIDAL DIFFERENCES for the northern part of the coast of British Columbia and for the Queen Charlotte islands are given off pages 6 and 7. Tables and other data for the time of SLACK WATER in the various narrows, follow the Tide Tables.

## TIDE TABLES.—PRINCE RUPERT, B.C.—1920.

## JANUARY.

Date.	Day.	HIGH WATER.		LOW WATER.		Moon.
		Morn'g.	After'n.	Morn'g.	After'n.	
1	Th.	9 08	22 08	2 26	15 56	N
2	F.	10 10	23 10	3 44	17 00	
3	Sa.	11 06	.....	4 54	17 55	
4	S.	0 05	11 58	5 55	18 45	
5	M.	0 56	12 47	6 51	19 32	
6	Tu.	1 44	13 34	7 43	20 17	
7	W.	2 29	14 20	8 31	21 01	
8	Th.	3 13	15 07	9 18	21 43	
9	F.	3 57	15 56	10 04	22 24	E
10	Sa.	4 42	16 48	10 52	23 04	
11	S.	5 30	17 45	11 44	23 45	
12	M.	6 22	18 48	.....	12 42	
13	Tu.	7 19	19 57	0 31	13 51	
14	W.	8 18	21 11	1 26	15 03	
15	Th.	9 13	22 18	2 33	16 07	
16	F.	10 02	23 11	3 44	17 02	
17	Sa.	10 48	23 54	4 44	17 48	S
18	S.	11 32	.....	5 33	18 28	
19	M.	0 33	12 13	6 16	19 04	
20	Tu.	1 08	12 52	6 56	19 38	
21	W.	1 42	13 28	7 35	20 10	
22	Th.	2 15	14 03	8 12	20 41	
23	F.	2 47	14 39	8 48	21 12	
24	Sa.	3 20	15 17	9 25	21 44	E
25	S.	3 54	15 59	10 05	22 20	
26	M.	4 32	16 48	10 51	23 01	
27	Tu.	5 19	17 50	11 46	23 48	
28	W.	6 18	19 07	.....	12 53	
29	Th.	7 27	20 33	0 44	14 09	
30	F.	8 38	21 52	1 52	15 32	
31	Sa.	9 48	22 55	3 54	16 39	N

## FEBRUARY.

Date.	Day.	HIGH WATER.		LOW WATER.		Moon.
		Morn'g.	After'n.	Morn'g.	After'n.	
1	S.	10 49	23 49	4 50	17 37	
2	M.	11 42	.....	5 44	18 27	
3	Tu.	0 38	12 32	6 36	19 12	
4	W.	1 23	13 20	7 26	19 54	
5	Th.	2 05	14 06	8 13	20 35	E
6	F.	2 45	14 51	8 57	21 15	
7	Sa.	3 24	15 35	9 40	21 53	
8	S.	4 03	16 20	10 24	22 30	
9	M.	4 43	17 08	11 09	23 08	
10	Tu.	5 28	18 04	12 00	23 48	
11	W.	6 18	19 12	.....	13 00	
12	Th.	7 18	20 30	0 34	14 09	
13	F.	8 25	21 44	1 38	15 25	S
14	Sa.	9 30	22 46	3 69	16 29	
15	S.	10 24	23 31	4 18	17 21	
16	M.	11 09	.....	5 15	18 03	
17	Tu.	0 05	11 50	6 03	18 39	
18	W.	0 38	12 29	6 43	19 11	
19	Th.	1 10	13 07	7 20	19 42	
20	F.	1 41	13 44	7 55	20 12	E
21	Sa.	2 12	14 21	8 29	20 43	
22	S.	2 45	15 01	9 04	21 16	
23	M.	3 20	15 44	9 42	21 52	
24	Tu.	4 01	16 33	10 28	22 33	
25	W.	4 48	17 34	11 24	23 23	
26	Th.	5 45	18 49	.....	12 31	
27	F.	6 54	20 14	0 26	13 46	N
28	Sa.	8 16	21 33	1 45	15 06	
29	S.	9 30	22 39	3 15	16 17	

## MARCH.

	H. M.	H. M.	H. M.	H. M.	
1	M.	10 35	23 34	4 31	17 18
2	Tu.	11 31	.....	5 36	18 09
3	W.	0 19	12 19	6 28	18 53
4	Th.	0 57	13 03	7 14	19 33
5	F.	1 34	13 46	7 56	20 11
6	Sa.	2 10	14 28	8 36	20 47
7	S.	2 45	15 09	9 15	21 21
8	M.	3 20	15 50	9 53	21 54
9	Tu.	3 56	16 33	10 33	22 28
10	W.	4 35	17 24	11 16	23 05
11	Th.	5 19	18 29	12 05	23 50
12	F.	6 21	19 45	.....	13 10
13	Sa.	7 41	21 06	1 01	14 30
14	S.	8 52	22 08	2 30	15 39
15	M.	9 51	22 51	3 49	16 36
16	Tu.	10 42	23 27	4 49	17 23
17	W.	11 28	.....	5 36	18 01
18	Th.	0 02	12 09	6 16	18 35
19	F.	0 36	12 48	6 54	19 08
20	Sa.	1 09	13 26	7 31	19 41
21	S.	1 42	14 05	8 08	20 15
22	M.	2 16	14 46	8 46	20 51
23	Tu.	2 52	15 30	9 26	21 31
24	W.	3 32	16 21	10 11	22 17
25	Th.	4 20	17 25	11 04	23 11
26	F.	5 21	18 40	.....	12 08
27	Sa.	6 35	20 00	0 18	13 22
28	S.	8 00	21 15	1 39	14 44
29	M.	9 16	22 18	3 11	15 54
30	Tu.	10 21	23 06	4 27	16 53
31	W.	11 16	23 46	5 23	17 43

## APRIL.

	H. M.	H. M.	H. M.	H. M.	
1	Th.	.....	12 05	6 10	18 26
2	F.	0 24	12 49	6 52	19 05
3	Sa.	1 01	13 30	7 32	19 42
4	S.	1 37	14 09	8 11	20 18
5	M.	2 12	14 47	8 49	20 53
6	Tu.	2 46	15 26	9 26	21 18
7	W.	3 21	16 07	10 03	21 54
8	Th.	3 58	16 52	10 41	22 33
9	F.	4 38	17 50	11 22	23 18
10	Sa.	5 29	19 06	.....	12 18
11	S.	6 51	20 13	0 21	13 24
12	M.	8 08	21 10	1 46	14 39
13	Tu.	9 15	22 01	3 13	15 43
14	W.	10 13	22 45	4 19	16 36
15	Th.	11 03	23 24	5 08	17 21
16	F.	11 47	.....	5 50	18 00
17	Sa.	0 01	12 30	6 30	18 38
18	S.	0 37	13 12	7 09	19 15
19	M.	1 14	13 54	7 49	19 53
20	Tu.	1 52	14 37	8 30	20 33
21	W.	2 32	15 22	9 13	21 18
22	Th.	3 16	16 13	10 00	22 08
23	F.	4 05	17 15	10 53	23 04
24	Sa.	5 03	18 26	11 52	.....
25	S.	6 18	19 42	0 12	13 00
26	M.	7 46	20 49	1 33	14 14
27	Tu.	9 03	21 47	3 02	15 23
28	W.	10 08	22 36	4 09	16 21
29	Th.	11 03	23 18	5 05	17 11
30	F.	11 49	23 55	5 53	17 56

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours, from midnight to midnight.

The RANGE of the tide is 5 per cent greater than at Port Simpson at both springs and neaps. The rise is therefore slightly greater than in the Tide Tables for Port Simpson.

## TIDE TABLES.—PRINCE RUPERT, B.C.—1920.

41

MAY.

JUNE.

Date.	Day.	HIGH WATER.				Moon.	HIGH WATER.				LOW WATER.				Moon.
		Morn'g.	After'n.	Morn'g.	After'n.		Morn'g.	After'n.	Morn'g.	After'n.	Morn'g.	After'n.	Morn'g.	After'n.	
1	Sa.			12	30		6	34	18	36			0	36	H.
2	S.	0	31	13	09		7	12	19	12			1	11	M.
3	M.	1	06	13	47		7	48	19	46			1	45	H.
4	Tu.	1	40	14	24		8	23	20	19			2	20	M.
5	W.	2	13	15	02		8	57	20	53			2	58	H.
6	Th.	2	46	15	41		9	32	21	29			3	39	M.
7	F.	3	21	16	25		10	08	22	08			4	24	H.
8	Sa.	4	01	17	16		10	48	22	54			5	18	M.
9	S.	4	54	18	14		11	33	23	51			6	25	H.
10	M.	6	00	19	16		12	28					7	45	M.
11	Tu.	7	18	20	16		1	01	13	32			8	56	H.
12	W.	8	33	21	09		2	22	14	38			9	57	M.
13	Th.	9	36	21	57		3	30	15	36			10	54	H.
14	F.	10	31	22	42		4	27	16	29			11	48	M.
15	Sa.	11	22	23	25		5	16	17	18			12	39	H.
16	S.			12	11		6	03	18	05			13	28	M.
17	M.	0	07	12	57		6	49	18	51			14	17	H.
18	Tu.	0	48	13	42		7	34	19	36			15	05	M.
19	W.	1	30	14	27		8	20	20	22			16	41	H.
20	Th.	2	14	15	14		9	06	21	09			17	36	M.
21	F.	3	01	16	05		9	53	21	59			18	36	H.
22	Sa.	3	52	17	02		10	41	22	56			19	28	M.
23	S.	4	49	18	08		11	32					20	35	H.
24	M.	6	04	19	18		0	03	12	31			21	03	M.
25	Tu.	7	26	20	20		1	18	13	38			22	28	H.
26	W.	8	39	21	13		2	38	14	44			23	16	M.
27	Th.	9	44	22	01		3	46	15	42			24	58	H.
28	F.	10	41	22	44		4	43	16	34			25	58	M.
29	Sa.	11	30	23	23		5	30	17	22			26	39	H.
30	S.			12	11		6	11	18	06			27	38	M.
31	M.	0	00	12	51		6	50	18	46			28	19	H.

JULY.

AUGUST.

Date.	Day.	HIGH WATER.				Moon.	HIGH WATER.				LOW WATER.				Moon.	
		H.	M.	H.	M.		H.	M.	H.	M.	H.	M.	H.	M.		
1	Th.	0	57	13	50	7	43	19	37			1	51	14	25	H.
2	F.	1	33	14	24	8	17	20	14			2	26	8	25	M.
3	Sa.	2	08	14	57	8	50	20	50			3	02	9	25	H.
4	S.	2	43	15	31	9	22	21	27			4	41	16	08	M.
5	M.	3	19	16	07	9	55	22	06			5	18	17	39	H.
6	Tu.	3	58	16	46	10	30	22	50			6	26	18	40	M.
7	W.	4	46	17	30	11	10	23	43			7	48	19	52	H.
8	Th.	5	49	18	23	11	55					8	09	21	12	M.
9	F.	7	01	19	23	0	46	12	46			10	18	22	18	H.
10	Sa.	8	18	20	28	1	57	13	46			11	18	23	16	M.
11	S.	9	32	21	34	3	17	14	57			12	11	6	00	H.
12	M.	10	38	22	33	4	26	16	17			13	09	12	56	M.
13	Tu.	11	36	23	27	5	24	17	24			14	00	13	38	H.
14	W.			12	28	6	16	18	22			15	48	14	19	M.
15	Th.	0	20	13	16	7	05	19	15			16	34	14	59	H.
16	F.	1	11	14	00	7	51	20	04			17	19	15	39	M.
17	Sa.	2	00	14	43	8	34	20	52			18	04	16	20	H.
18	S.	2	48	15	27	9	16	21	39			19	51	17	03	M.
19	M.	3	37	16	12	9	57	22	27			20	45	17	52	H.
20	Tu.	4	27	17	00	10	38	23	17			21	50	18	55	M.
21	W.	5	20	17	51	11	21					22	07	20	06	H.
22	Th.	6	18	18	48	0	12	12	08			23	23	21	15	M.
23	F.	7	27	19	48	1	18	13	06			24	10	26	22	S.
24	Sa.	8	45	20	47	2	35	14	14			25	11	14	23	H.
25	S.	9	55	21	42	3	44	15	24			26	11	50	23	M.
26	M.	10	51	22	33	4	42	16	26			27	4	51	12	H.
27	Tu.	11	38	23	20	5	30	17	19			28	5	45	12	M.
28	W.			12	17	6	11	18	06			29	6	50	18	H.
29	Th.	0	02	12	52	6	48	18	48			30	1	34	13	M.
30	F.	0	40	13	24	7	22	19	25			31	2	09	14	S.
31	Sa.	1	16	13	55	7	54	19	59							H.

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours, from midnight to midnight.

The RANGE of the tide is 5 per cent greater than at Port Simpson at both springs and neaps. The rise is therefore slightly greater than in the Tide Tables for Port Simpson.

## TIDE TABLES.—PRINCE RUPERT, B.C.—1920.

## SEPTEMBER.

Date.	Day.	HIGH WATER.		LOW WATER.		Moon.
		Morn'g.	After'n.	Morn'g.	After'n.	
1	W.	2 45	14 58	8 55	21 20	
2	Th.	3 23	15 34	9 27	21 59	
3	F.	4 06	16 14	10 03	22 46	
4	Sa.	4 58	17 04	10 48	23 44	
5	S.	6 08	18 12	11 45	.....	N
6	H.	7 32	19 33	0 56	13 00	
7	Tu.	8 54	20 52	2 21	14 30	
8	W.	9 58	22 03	3 38	15 54	
9	Th.	10 54	23 03	4 42	17 03	
10	F.	11 43	23 56	5 36	18 01	
11	Sa.	.....	12 27	6 23	18 49	E
12	S.	0 43	13 09	7 07	19 33	
13	M.	1 28	13 48	7 49	20 16	
14	Tu.	2 12	14 26	8 29	20 58	
15	W.	2 55	15 03	9 06	21 39	
16	Th.	3 37	15 41	9 41	22 19	
17	F.	4 21	16 20	10 15	23 01	
18	Sa.	5 11	17 03	10 53	23 47	
19	S.	6 12	17 58	11 39	.....	S
20	M.	7 24	19 14	0 46	12 40	
21	Tu.	8 44	20 36	2 01	14 14	
22	W.	9 48	21 42	3 20	15 41	
23	Th.	10 36	22 32	4 19	16 38	
24	F.	11 13	23 15	5 04	17 24	
25	Sa.	11 46	23 56	5 42	18 03	
26	S.	.....	12 18	6 18	18 40	E
27	M.	0 35	12 49	6 53	19 16	
28	Tu.	1 13	13 21	7 27	19 52	
29	W.	1 50	13 54	8 00	20 28	
30	Th.	2 28	14 29	8 33	21 05	

## OCTOBER.

Date.	Day.	HIGH WATER.		LOW WATER.		Moon.
		Morn'g.	After'n.	Morn'g.	After'n.	
1	F.	3 08	15 07	9 08	21 45	
2	Sa.	3 53	15 49	9 46	22 32	N
3	S.	4 49	16 40	10 36	23 30	
4	M.	5 58	17 49	11 38	.....	
5	Tu.	7 18	19 15	0 38	12 56	
6	W.	8 36	20 39	1 54	14 28	
7	Th.	9 41	21 52	3 12	15 46	
8	F.	10 36	22 52	4 19	16 51	
9	Sa.	11 22	23 42	5 14	17 44	E
10	S.	.....	12 03	6 00	18 30	
11	M.	0 28	12 41	6 41	19 12	
12	Tu.	1 11	13 17	7 21	19 53	
13	W.	1 52	13 52	7 59	20 32	
14	Th.	2 31	14 26	8 36	21 10	
15	F.	3 12	15 01	9 12	21 48	
16	Sa.	3 55	15 38	9 48	22 27	S
17	S.	4 44	16 19	10 27	23 08	
18	M.	5 38	17 13	11 11	23 56	
19	Tu.	6 40	18 23	.....	12 11	
20	W.	7 48	19 45	0 58	13 29	
21	Th.	8 49	20 56	2 12	14 55	
22	F.	9 42	21 55	3 15	16 02	
23	Sa.	10 26	22 46	4 08	16 51	
24	S.	11 05	23 29	4 54	17 33	E
25	M.	11 42	.....	5 36	18 13	
26	Tu.	0 10	12 17	6 15	18 52	
27	W.	0 50	12 51	6 53	19 30	
28	Th.	1 30	13 26	7 31	20 09	
29	F.	2 11	14 03	8 10	20 49	
30	Sa.	2 54	14 43	8 51	21 32	N
31	S.	3 44	15 31	9 36	22 20	

## NOVEMBER.

Date.	Day.	HIGH WATER.		LOW WATER.		Moon.
		Morn'g.	After'n.	Morn'g.	After'n.	
1	M.	4 43	16 28	10 30	23 15	
2	Tu.	5 49	17 36	11 35	.....	
3	W.	7 00	18 57	0 19	12 51	
4	Th.	8 09	20 17	1 30	14 16	
5	F.	9 10	21 30	2 40	15 32	E
6	Sa.	10 03	22 32	3 44	16 34	
7	S.	10 48	23 26	4 39	17 27	
8	M.	11 30	.....	5 27	18 14	
9	Tu.	0 13	12 11	6 12	18 55	
10	W.	0 56	12 50	6 54	19 34	
11	Th.	1 36	13 27	7 34	20 12	
12	F.	2 15	14 03	8 12	20 49	
13	Sa.	2 53	14 38	8 49	21 25	
14	S.	3 33	15 15	9 25	22 00	
15	M.	4 15	15 54	10 03	22 37	
16	Tu.	5 01	16 38	10 45	23 18	
17	W.	5 55	17 36	11 39	.....	
18	Th.	6 57	18 50	0 06	12 46	
19	F.	7 55	20 06	1 04	14 02	
20	Sa.	8 47	21 12	2 07	15 09	
21	S.	9 35	22 09	3 06	16 06	
22	M.	10 20	23 00	4 01	16 58	
23	Tu.	11 04	23 48	4 52	17 44	
24	W.	11 47	.....	5 41	18 30	
25	Th.	0 34	12 29	6 28	19 15	
26	F.	1 19	13 12	7 14	19 59	
27	Sa.	2 04	13 56	8 00	20 42	
28	S.	2 51	14 42	8 47	21 26	
29	M.	3 42	15 30	9 36	22 12	
30	Tu.	4 36	16 21	10 29	23 01	

## DECEMBER.

Date.	Day.	HIGH WATER.		LOW WATER.		Moon.
		Morn'g.	After'n.	Morn'g.	After'n.	
1	W.	5 33	17 26	11 30	23 56	
2	Th.	6 33	18 44	.....	12 42	
3	F.	7 37	20 03	0 57	14 00	E
4	Sa.	8 37	21 15	2 00	15 10	
5	S.	9 31	22 18	3 04	16 12	
6	M.	10 18	23 12	4 06	17 07	
7	Tu.	11 00	23 58	5 02	17 54	
8	W.	11 41	.....	5 50	18 36	
9	Th.	0 41	12 21	6 31	19 15	
10	F.	1 21	13 00	7 11	19 52	S
11	Sa.	1 59	13 38	7 50	20 27	
12	S.	2 36	14 15	8 28	21 01	
13	M.	3 12	14 52	9 05	21 34	
14	Tu.	3 49	15 31	9 43	22 08	
15	W.	4 29	16 12	10 23	22 43	
16	Th.	5 12	16 59	11 07	23 21	
17	F.	6 00	18 00	12 00	.....	E
18	Sa.	6 56	19 13	0 06	13 04	
19	S.	7 54	20 28	1 00	14 16	
20	M.	8 48	21 34	2 02	15 25	
21	Tu.	9 39	22 34	3 08	16 26	
22	W.	10 28	23 27	4 12	17 19	
23	Th.	11 16	.....	5 12	18 08	
24	F.	0 16	12 03	6 07	18 55	N
25	Sa.	1 03	12 49	6 59	19 41	
26	S.	1 49	13 36	7 49	20 26	
27	M.	2 36	14 25	8 38	21 10	
28	Tu.	3 24	15 16	9 28	21 55	
29	W.	4 14	16 11	10 20	22 41	
30	Th.	5 06	17 12	11 15	23 29	E
31	F.	6 01	18 19	.....	12 16	

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours, from midnight to midnight.

The RANGE of the tide is 5 per cent greater than at Port Simpson at both springs and neaps. The rise is therefore slightly greater than in the Tide Tables for Port Simpson.

# SLACK WATER TABLES

FOR

## THE PASSES AND NARROWS OF THE PACIFIC COAST FOR 1920.

### EXPLANATIONS.

*First narrows.*—Based on observations of slack water during six months in 1901, a full year from March 1906 to March 1907, and eight additional months in summer, in the years 1916, 1917 and 1918.

In the Strait of Georgia the high waters keep very nearly to the same level, and the lower low water falls much below any of the other tides. The turn of the current in First narrows is similarly affected; as the observations show that the difference in the time of turn, relatively to the tide at Sand Heads, is practically the same for the higher high water and both the half tides, while the turn at the lower low water is later than any. This distinction is made in calculating the tables of slack water. There is also an annual variation with the declination of the sun during the course of the year, which is allowed for.

*Active pass.*—Based on observations of slack water during 16 months in 1905 and 1906, and for a complete year from May 1916 to April 1917. These were taken at Burrill Point, near the eastern end. Observations obtained during surveys by H.M.S. *Egeria* in the two seasons of 1904 and 1905 were also utilized for comparison.

*Porlier pass.*—Based on observations of slack water during two periods of 18 months each, in 1906 and 1907, and in 1914 and 1915.

It has been found after extended investigation, that High-water slack in these two passes corresponds best with the tide in the open Pacific at Clayoquot; and that Low-water slack accords with the tide in the Strait of Georgia. In the differences with the tide at Clayoquot, there is annual variation which is allowed for; and in the differences for Active pass, it is necessary to distinguish the large and half tides in the Strait of Georgia. The Slack Water tables are calculated in accordance with these relations.

*Other passes off the Strait of Georgia.*—It has now been ascertained that the time of slack water in several other passes in this region can best be found by difference of time with the Slack Water tables above indicated. The reason of this is that the variations between slack water and the time of the tide, are concordant in similarly situated passes. The difference in the time of slack water between two corresponding passes may thus prove to be closely constant, as the variations between slack water and the time of the tide are the same for both, and therefore disappear in the comparison of the passes with each other. A table of these differences is given for the passes for which they are now accurately determined.

*Baynes channel.*—Situated ten miles east of Victoria. The difference with the tide at Victoria is based on observations during three months in 1912. This relation was found satisfactory, as the behaviour of the current corresponds with the character of the Victoria tides.

*Seymour narrows.*—The length of observations on which the Slack Water tables are based, and the method of calculation, are explained on the pages following the tables; and data are there given for the Northern passes in which the time of slack water can be found with reference to Seymour narrows.

The rapid current in Seymour narrows and the Yuculta, which ranges from 7 to 15 knots, must be due to the difference in the time of the tide to the north and to the south. This difference is five hours, or practically the tidal interval; and consequently, high water at the northern end of the straits leading to these narrows is simultaneous with low water to the south in the Strait of Georgia, and *vice versa*. There is thus a difference of level in the two directions equal to the whole range of the tide, which may well account for the swiftness of the current.

#### IMPORTANCE OF CORRECT TIME.

In making use of the Tables of Slack Water, it is important that captains should have the time correctly, especially when slack water only lasts for a few minutes. When a pass is not reached before the current turns, it is usually the time on the steamer that is at fault, rather than the Tables themselves

## SLACK WATER.—FIRST NARROWS, B.C.—1920.

45

## JANUARY.

Date.	Day.	H. W. SLACK.		L. W. SLACK.		Moon.
		Morn'g.	After'n.	Morn'g.	After'n.	
1	<b>Th.</b>	2 59	12 57	7 00	20 58	
2	<b>F.</b>	4 09	13 47	8 17	21 48	N.
3	<b>Sa.</b>	5 07	14 41	9 38	22 37	
4	<b>S.</b>	5 57	15 38	10 52	23 25	
5	<b>M.</b>	6 39	16 36	11 57	.....	
6	<b>Tu.</b>	7 18	17 32	0 12	12 54	
7	<b>W.</b>	7 56	18 30	0 57	13 47	
8	<b>Th.</b>	8 33	19 31	1 41	14 39	
9	<b>F.</b>	9 11	20 37	2 24	15 30	
10	<b>Sa.</b>	9 49	21 48	3 08	16 22	E.
11	<b>S.</b>	10 26	22 05	3 53	17 17	
12	<b>M.</b>	11 04	.....	4 28	18 26	
13	<b>Tu.</b>	0 30	11 43	5 17	19 23	
14	<b>W.</b>	2 04	12 23	6 13	20 15	
15	<b>Th.</b>	3 36	13 05	7 24	21 01	
16	<b>F.</b>	4 41	13 49	8 51	21 44	
17	<b>Sa.</b>	5 28	14 35	10 04	22 23	S.
18	<b>S.</b>	6 02	15 22	11 06	23 01	
19	<b>M.</b>	6 33	16 07	11 53	23 38	
20	<b>Tu.</b>	7 02	16 50	.....	12 31	
21	<b>W.</b>	7 30	17 34	0 14	13 07	
22	<b>Th.</b>	7 57	18 19	0 49	13 42	
23	<b>F.</b>	8 23	19 06	1 24	14 18	
24	<b>Sa.</b>	8 48	19 59	2 00	14 56	E.
25	<b>S.</b>	9 14	21 00	2 37	15 37	
26	<b>M.</b>	9 42	22 12	3 15	16 24	
27	<b>Tu.</b>	10 13	23 36	3 46	17 29	
28	<b>W.</b>	10 50	.....	4 28	18 28	
29	<b>Th.</b>	1 09	11 36	5 28	19 29	
30	<b>F.</b>	2 36	12 29	6 55	20 29	
31	<b>Sa.</b>	3 48	13 28	8 24	21 25	N.

## FEBRUARY.

Date.	Day.	H. W. SLACK.		L. W. SLACK.		Moon.
		Morn'g.	After'n.	Morn'g.	After'n.	
1	<b>S.</b>	4 46	14 30	9 42	22 17	
2	<b>M.</b>	5 30	15 35	10 50	23 05	E.
3	<b>Tu.</b>	6 10	16 39	11 48	23 51	
4	<b>W.</b>	6 47	17 30	.....	12 37	
5	<b>Th.</b>	7 22	18 39	0 35	13 23	
6	<b>F.</b>	7 56	19 37	1 18	14 08	
7	<b>Sa.</b>	8 29	20 35	2 00	14 52	
8	<b>S.</b>	9 02	21 35	2 41	15 37	
9	<b>M.</b>	9 36	22 42	3 12	16 35	
10	<b>Tu.</b>	10 11	23 56	3 57	17 25	
11	<b>W.</b>	10 48	.....	4 46	18 18	S.
12	<b>Th.</b>	1 18	11 28	5 44	19 13	
13	<b>F.</b>	2 45	12 17	7 03	20 09	
14	<b>Sa.</b>	3 53	13 14	8 41	21 02	
15	<b>S.</b>	4 42	14 14	9 56	21 50	
16	<b>M.</b>	5 16	15 10	10 44	22 31	
17	<b>Tu.</b>	5 45	16 01	11 22	23 10	
18	<b>W.</b>	6 12	16 50	11 58	23 48	
19	<b>Th.</b>	6 38	17 37	.....	12 33	
20	<b>F.</b>	7 03	18 56	0 25	13 07	E.
21	<b>Sa.</b>	7 28	19 11	1 02	13 43	
22	<b>S.</b>	7 54	20 04	1 40	14 21	
23	<b>M.</b>	8 21	21 03	2 19	15 13	
24	<b>Tu.</b>	8 50	22 12	2 48	15 59	
25	<b>W.</b>	9 23	23 30	3 31	16 51	N.
26	<b>Th.</b>	10 05	.....	4 25	17 51	
27	<b>F.</b>	0 55	10 58	5 36	18 56	
28	<b>Sa.</b>	2 16	12 03	7 06	19 59	
29	<b>S.</b>	3 23	13 18	8 31	20 59	

## MARCH.

Date.	Day.	H. W. SLACK.		L. W. SLACK.		Moon.
		Morn'g.	After'n.	Morn'g.	After'n.	
1	<b>M.</b>	4 15	14 36	9 45	21 55	
2	<b>Tu.</b>	4 57	15 48	10 45	22 47	
3	<b>W.</b>	5 32	16 52	11 33	23 35	
4	<b>Th.</b>	6 04	17 49	.....	12 14	
5	<b>F.</b>	6 35	18 43	0 20	12 54	E.
6	<b>Sa.</b>	7 05	19 36	1 03	13 44	
7	<b>S.</b>	7 35	20 30	1 34	14 24	
8	<b>M.</b>	8 06	21 25	2 15	15 05	
9	<b>Tu.</b>	8 38	22 22	2 56	15 47	
10	<b>W.</b>	9 11	23 23	3 39	16 32	
11	<b>Th.</b>	9 46	.....	4 31	17 20	
12	<b>F.</b>	0 31	10 29	5 33	18 12	S.
13	<b>Sa.</b>	1 46	11 32	7 09	19 09	
14	<b>S.</b>	2 49	12 48	8 33	20 08	
15	<b>M.</b>	3 38	14 00	9 34	21 04	
16	<b>Tu.</b>	4 15	15 06	10 15	21 54	
17	<b>W.</b>	4 45	16 02	10 50	22 39	
18	<b>Th.</b>	5 13	16 51	11 23	23 20	
19	<b>F.</b>	5 40	17 39	11 55	.....	E.
20	<b>Sa.</b>	6 06	18 28	0 00	12 40	
21	<b>S.</b>	6 32	19 18	0 40	13 17	
22	<b>M.</b>	6 59	20 10	1 10	13 58	
23	<b>Tu.</b>	7 28	21 07	1 53	14 43	
24	<b>W.</b>	8 02	22 13	2 40	15 32	
25	<b>Th.</b>	8 42	23 25	3 34	16 25	
26	<b>F.</b>	9 31	.....	4 37	17 21	
27	<b>Sa.</b>	0 39	10 33	5 56	18 21	
28	<b>S.</b>	1 45	11 54	7 26	19 26	
29	<b>M.</b>	2 42	13 31	8 48	20 33	
30	<b>Tu.</b>	3 29	14 54	9 50	21 34	
31	<b>W.</b>	4 07	16 01	10 35	22 28	

## APRIL.

Date.	Day.	H. W. SLACK.		L. W. SLACK.		Moon.
		Morn'g.	After'n.	Morn'g.	After'n.	
1	<b>Th.</b>	4 44	17 04	11 26	23 17	E.
2	<b>F.</b>	5 14	17 58	12 02	23 51	
3	<b>Sa.</b>	5 43	18 49	.....	12 37	
4	<b>S.</b>	6 12	19 39	0 33	13 12	
5	<b>M.</b>	6 42	20 28	1 14	13 48	
6	<b>Tu.</b>	7 13	21 16	1 56	14 25	
7	<b>W.</b>	7 45	22 05	2 41	15 03	S.
8	<b>Th.</b>	8 18	22 55	3 29	15 43	
9	<b>F.</b>	8 52	23 48	4 22	16 26	
10	<b>Sa.</b>	9 31	.....	5 27	17 14	
11	<b>S.</b>	0 48	10 42	6 51	18 09	
12	<b>M.</b>	1 46	12 18	8 05	19 09	
13	<b>Tu.</b>	2 33	13 44	9 02	20 10	
14	<b>W.</b>	3 11	14 58	9 44	21 08	
15	<b>Th.</b>	3 44	15 59	10 18	22 01	E.
16	<b>F.</b>	4 14	16 52	11 01	22 39	
17	<b>Sa.</b>	4 43	17 43	11 35	23 25	
18	<b>S.</b>	5 12	18 33	.....	12 11	
19	<b>M.</b>	5 42	19 24	0 10	12 50	
20	<b>Tu.</b>	6 14	20 17	0 57	13 32	
21	<b>W.</b>	6 49	21 13	1 47	14 18	
22	<b>Th.</b>	7 28	22 14	2 42	15 07	
23	<b>F.</b>	8 17	23 18	3 45	15 59	
24	<b>Sa.</b>	9 18	.....	4 57	16 54	
25	<b>S.</b>	0 17	10 35	6 18	17 33	
26	<b>M.</b>	1 10	12 14	7 44	18 58	
27	<b>Tu.</b>	1 57	13 53	8 53	20 06	
28	<b>W.</b>	2 39	15 16	9 42	20 59	E.
29	<b>Th.</b>	3 17	16 23	10 29	21 55	
30	<b>F.</b>	3 51	17 18	11 02	22 43	

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours, from midnight to midnight.

The VELOCITY of the current at the maximum, is 6 to 8 knots.

The Moon's Declination is indicated thus: E, moon on the equator; N, moon farthest north, and S, moon farthest south of the equator.

## SLACK WATER.—FIRST NARROWS, B.C.—1920.

MAY.								JUNE.							
Date.	Day.	H. W. SLACK.		L. W. SLACK.		Moon.		Date.	Day.	H. W. SLACK.		L. W. SLACK.		Moon.	
		Morn'g.	After'n.	Morn'g.	After'n.					H.	M.	H.	M.		
1	Sa.	4	23	18	06	11	34	23	30			4	43	19	37
2	S.	4	53	18	52			12	07			5	15	20	13
3	M.	5	22	19	36	0	16	12	41			5	48	20	48
4	Tu.	5	51	20	19	1	01	13	16			6	22	21	22
5	W.	6	21	21	01	1	45	13	51			6	59	21	59
6	Th.	6	52	21	45	2	30	14	27			7	44	22	34
7	F.	7	25	22	27	3	17	15	04			8	39	23	08
8	Sa.	8	01	23	13	4	10	15	44			9	55	23	43
9	S.	8	45	23	59	5	10	16	27			11	28	.....	.....
10	M.	9	50	.....	.....	6	15	17	15			10	19	13	06
11	Tu.	0	43	11	54	7	18	18	12			0	56	14	31
12	W.	1	24	13	31	8	13	19	14			1	34	15	41
13	Th.	2	01	14	44	8	58	20	07			2	14	16	43
14	F.	2	36	15	48	9	46	21	08			2	58	17	38
15	Sa.	3	10	16	46	10	23	22	05			3	46	18	29
16	S.	3	44	17	41	11	01	22	59			4	35	19	18
17	M.	4	19	18	33	11	41	23	52			5	25	20	05
18	Tu.	4	55	19	24			12	24			6	17	20	50
19	W.	5	34	20	14	0	46	13	10			7	12	21	34
20	Th.	6	18	21	03	1	42	13	58			8	12	22	17
21	F.	7	08	21	53	2	41	14	47			9	23	22	59
22	Sa.	8	05	22	45	3	43	15	37			10	46	23	41
23	S.	9	15	23	38	4	50	16	28			11	.....	12	19
24	M.	10	44	.....	.....	6	05	17	21			12	.....	6	37
25	Tu.	0	27	12	25	7	22	18	18			13	22	7	51
26	W.	1	11	14	01	8	35	19	10			14	02	15	24
27	Th.	1	51	15	26	9	24	20	16			15	20	9	32
28	F.	2	29	16	37	10	02	21	24			16	20	10	11
29	Sa.	3	04	17	33	10	36	22	25			17	22	11	22
30	S.	3	36	18	16	11	09	23	18			18	20	10	47
31	M.	4	07	18	55	11	41	.....	.....			19	23	11	56
JULY.								AUGUST.							
Date.	Day.	H.	M.	H.	M.	H.	M.	Date.	Day.	H.	M.	H.	M.	Moon.	
		4	54	19	52	0	39	12	29	1	52	6	21	20	08
2	F.	5	34	20	20	1	19	13	02	2	04	7	04	20	32
3	Sa.	6	16	20	48	1	58	13	36	3	52	7	52	20	57
4	S.	7	00	21	17	2	37	14	11	4	48	8	48	21	24
5	M.	7	47	21	47	3	17	14	47	5	55	9	55	21	54
6	Tu.	8	42	22	18	3	59	15	25	6	11	11	11	22	29
7	W.	9	51	22	50	4	46	16	05	7	36	12	36	23	10
8	Th.	11	14	23	25	5	37	16	38	8	.....	14	03	7	01
9	F.	.....	12	42	6	42	17	27	9	02	15	19	8	04	
10	Sa.	0	04	14	16	7	30	18	33	10	04	1	04	16	17
11	S.	0	48	15	38	8	36	19	58	11	22	2	11	17	05
12	M.	1	37	16	42	9	29	21	15	12	30	3	20	17	05
13	Tu.	2	29	17	34	10	20	22	25	13	28	4	28	18	25
14	W.	3	25	18	20	11	09	23	29	14	29	5	29	19	02
15	Th.	4	24	19	01	11	56	.....	.....	15	37	6	27	19	37
16	F.	5	22	19	41	0	26	12	41	16	05	7	24	20	11
17	Sa.	6	19	20	20	1	20	13	25	17	46	8	23	20	49
18	S.	7	17	20	58	2	13	14	10	18	41	9	24	21	17
19	M.	8	19	21	35	3	05	14	54	19	59	10	29	21	52
20	Tu.	9	27	22	12	3	57	15	39	20	29	11	41	22	30
21	W.	10	41	22	50	5	00	16	15	21	59	12	59	23	16
22	Th.	12	01	23	29	5	55	17	04	22	.....	14	20	6	54
23	F.	.....	13	31	6	54	18	02	23	0	11	15	33	7	57
24	Sa.	0	10	15	09	7	55	19	14	24	14	1	14	16	26
25	S.	0	54	16	23	8	51	20	44	25	19	2	19	17	02
26	M.	1	42	17	15	9	38	22	05	26	37	3	17	17	31
27	Tu.	2	33	17	52	10	18	23	05	27	57	4	08	17	57
28	W.	3	25	18	22	10	55	23	48	28	56	5	42	18	46
29	Th.	4	14	18	50	11	31	.....	.....	29	55	6	27	19	09
30	F.	4	58	19	17	0	22	12	06	30	53	0	54	12	57
31	Sa.	5	40	19	43	0	54	12	41	31	13	7	13	19	33

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours, from midnight to midnight.

The VELOCITY of the current at the maximum, is 6 to 8 knots.

The Moon's Declination is indicated thus : E, moon on the equator ; N, moon farthest north, and S, moon farthest south of the equator.

## SLACK WATER.—FIRST NARROWS, B.C.—1920.

47

## SEPTEMBER.

Date.	Day.	H. W. SLACK.		L. W. SLACK.		Moon.
		Morn'g.	After'n.	Morn'g.	After'n.	
1	W.	8 01	19 58	2 14	14 11	
2	Th.	8 52	20 25	2 53	14 41	
3	F.	9 51	20 57	3 35	15 22	N
4	Sa.	11 02	21 36	4 23	16 08	
5	S.	12 20	22 29	5 19	17 12	
6	M.	13 39	23 34	6 24	18 35	
7	Tu.	.....	14 47	7 31	20 02	
8	W.	0 50	15 42	8 34	21 16	
9	Th.	2 14	16 27	9 31	22 17	
10	F.	3 34	17 04	10 24	23 07	
11	Sa.	4 40	17 39	11 14	23 50	E
12	S.	5 36	18 12	.....	12 02	
13	M.	6 30	18 44	0 42	12 48	
14	Tu.	7 23	19 15	1 22	13 23	
15	W.	8 16	19 47	2 03	14 07	
16	Th.	9 10	20 21	2 45	14 52	
17	F.	10 06	20 58	3 28	15 39	
18	Sa.	11 05	21 38	4 14	16 29	
19	S.	12 09	22 23	5 02	17 31	S
20	M.	13 19	23 27	5 53	18 58	
21	Tu.	.....	14 23	6 50	20 33	
22	W.	0 47	15 16	7 52	21 35	
23	Th.	2 03	15 58	8 47	22 11	
24	F.	3 09	16 31	9 37	22 43	
25	Sa.	4 06	16 59	10 22	23 14	
26	S.	4 56	17 25	11 06	23 44	E
27	M.	5 43	17 50	11 48	.....	
28	Tu.	6 29	18 15	0 26	12 19	
29	W.	7 15	18 42	1 01	13 01	
30	Th.	8 03	19 12	1 40	13 44	

## OCTOBER.

Date.	Day.	H. W. SLACK.		L. W. SLACK.		Moon.
		Morn'g.	After'n.	Morn'g.	After'n.	
1	F.	8 50	19 41	2 17	14 25	
2	Sa.	9 46	20 19	3 00	15 15	N
3	S.	10 50	21 03	3 48	16 13	
4	M.	11 58	22 01	4 42	17 25	
5	Tu.	13 02	23 22	5 42	18 47	
6	W.	.....	14 00	6 48	20 07	
7	Th.	1 00	14 50	7 56	21 13	
8	F.	2 31	15 33	9 02	22 04	
9	Sa.	3 46	16 10	10 00	22 55	E
10	S.	4 49	16 44	10 43	23 34	
11	M.	5 43	17 16	11 32	.....	
12	Tu.	6 34	17 47	0 12	12 18	
13	W.	7 24	18 19	0 49	13 03	
14	Th.	8 13	18 52	1 27	13 49	
15	F.	9 02	19 27	2 06	14 36	
16	Sa.	9 50	20 04	2 46	15 25	S
17	S.	10 38	20 44	3 27	16 17	
18	M.	11 27	21 30	4 09	17 22	
19	Tu.	12 18	22 34	4 53	18 37	
20	W.	.....	13 10	5 42	19 56	
21	Th.	0 13	13 59	6 40	20 52	
22	F.	1 40	14 42	7 42	21 29	
23	Sa.	2 52	15 17	8 32	22 27	
24	S.	3 53	15 48	9 36	22 40	
25	M.	4 46	16 17	10 16	23 12	
26	Tu.	5 35	16 45	11 04	23 46	
27	W.	6 23	17 14	11 51	.....	
28	Th.	7 11	17 45	0 24	12 39	
29	F.	8 00	18 19	1 06	13 29	
30	Sa.	8 51	18 58	1 50	14 22	N
31	S.	9 45	19 46	2 37	15 20	

## NOVEMBER.

W.M.	M.	H. M.		H. M.		H. M.
		Morn'	After'n.	Morn'	After'n.	
1	M.	10 20	20 43	3 25	16 24	
2	Tu.	11 35	21 52	4 16	17 36	
3	W.	12 28	23 29	5 11	18 55	
4	Th.	.....	13 18	6 12	20 05	E
5	F.	1 25	14 03	7 10	21 02	
6	Sa.	2 52	14 44	8 19	21 58	
7	S.	4 04	15 21	9 22	22 37	
8	M.	5 04	15 55	10 20	23 13	
9	Tu.	5 55	16 28	11 13	23 48	
10	W.	6 43	17 00	.....	12 02	
11	Th.	7 28	17 33	0 23	12 50	
12	F.	8 12	18 07	0 59	13 37	
13	Sa.	8 54	18 42	1 34	14 25	
14	S.	9 33	19 18	2 09	15 14	
15	M.	10 11	19 58	2 45	16 05	
16	Tu.	10 50	20 54	3 23	17 00	
17	W.	11 30	22 12	4 04	18 00	
18	Th.	12 11	23 43	4 48	19 02	
19	F.	.....	12 53	5 40	19 57	E
20	Sa.	1 16	13 33	6 32	20 42	
21	S.	2 37	14 10	7 41	21 29	
22	M.	3 47	14 45	8 44	22 05	
23	Tu.	4 45	15 19	9 42	22 42	
24	W.	5 35	15 54	10 37	23 22	
25	Th.	6 22	16 31	11 31	.....	N
26	F.	7 08	17 10	0 04	12 25	
27	Sa.	7 53	17 52	0 48	13 20	
28	S.	8 39	18 40	1 33	14 18	
29	M.	9 26	19 37	2 19	15 18	
30	Tu.	10 14	20 42	3 07	16 20	

## DECEMBER.

1	W.	H. M.		H. M.		H. M.
		Morn'	After'n.	Morn'	After'n.	
1	W.	10 59	22 01	3 54	17 21	
2	Th.	11 46	23 45	4 46	18 29	
3	F.	.....	12 30	5 30	19 33	E
4	Sa.	1 26	13 10	6 31	20 40	
5	S.	2 58	13 48	7 39	21 27	
6	M.	4 13	14 25	8 51	22 07	
7	Tu.	5 12	15 01	9 56	22 45	
8	W.	6 01	15 37	10 54	23 21	
9	Th.	6 42	16 14	11 48	23 56	
10	F.	7 20	16 52	.....	12 39	
11	Sa.	7 56	17 31	0 30	13 28	
12	S.	8 30	18 11	1 03	14 14	
13	M.	9 03	19 04	1 37	14 58	
14	Tu.	9 35	19 39	2 12	15 41	
15	W.	10 07	20 33	2 48	16 24	
16	Th.	10 40	21 42	3 26	17 09	
17	F.	11 14	23 06	4 06	18 00	
18	Sa.	11 49	.....	4 39	18 55	
19	S.	0 44	12 24	5 32	19 57	
20	M.	2 13	13 00	6 36	20 44	
21	Tu.	3 28	13 38	7 49	21 29	
22	W.	4 30	14 20	9 00	22 13	
23	Th.	5 22	15 06	10 09	22 57	
24	F.	6 08	15 55	11 12	23 42	N
25	Sa.	6 52	16 46	.....	12 11	
26	S.	7 35	17 40	0 28	13 08	
27	M.	8 16	18 38	1 13	14 03	
28	Tu.	8 56	19 41	1 57	14 57	
29	W.	9 37	20 52	2 41	15 52	
30	Th.	10 18	22 12	3 26	16 49	
31	F.	10 59	23 41	4 14	17 48	E

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours, from midnight to midnight.

The VELOCITY of the current at the maximum, is 6 to 8 knots.

The Moon's Declination is indicated thus: E, moon on the equator; N, moon farthest north, and S, moon farthest south of the equator.

## SLACK WATER.—ACTIVE PASS, B.C.—1920.

## JANUARY.

Date	Day.	H.W. SLACK.		L.W. SLACK.		Moon.
		Morn'g.	After'n.	Morn'g.	After'n.	
1	Th.	11 53	.....	5 53	19 15	N
2	F.	1 18	12 50	7 10	20 05	
3	Sa.	2 17	13 45	8 31	20 54	
4	S.	3 12	14 39	9 45	21 42	
5	M.	4 04	15 34	10 50	22 29	
6	Tu.	4 54	16 30	11 47	23 14	
7	W.	5 42	17 24	12 40	23 58	
8	Th.	6 28	18 16	.....	13 32	
9	F.	7 12	19 07	0 41	14 23	
10	Sa.	7 55	19 59	1 25	15 15	E
11	S.	8 39	20 54	2 10	16 10	
12	M.	9 25	21 57	3 21	16 43	
13	Tu.	10 17	23 17	4 10	17 40	
14	W.	11 17	.....	5 06	18 32	
15	Th.	0 39	12 18	6 17	19 18	S
16	F.	1 47	13 10	7 44	20 01	
17	Sa.	2 39	13 55	8 57	20 40	
18	S.	3 23	14 35	9 59	21 18	
19	M.	3 57	15 13	10 46	21 55	
20	Tu.	4 31	15 50	11 24	22 31	
21	W.	5 04	16 27	12 00	23 06	
22	Th.	5 36	17 05	12 35	23 41	
23	F.	6 07	17 44	.....	13 11	E
24	Sa.	6 39	18 25	0 17	13 49	
25	S.	7 12	19 10	0 54	14 30	
26	M.	7 48	20 00	1 32	15 17	
27	Tu.	8 30	21 01	2 37	15 46	
28	W.	9 19	22 18	3 21	16 45	
29	Th.	10 19	23 49	4 21	17 46	
30	F.	11 28	.....	5 48	18 46	
31	Sa.	1 08	12 39	7 17	19 42	N

## FEBRUARY.

Date	Day.	H.W. SLACK.		L.W. SLACK.		Moon.
		Morn'g.	After'n.	Morn'g.	After'n.	
1	S.	2 12	13 43	8 35	20 34	
2	M.	3 03	14 41	9 43	21 22	
3	Tu.	3 49	15 34	10 41	22 08	
4	W.	4 33	16 25	11 30	22 52	
5	Th.	5 15	17 13	12 16	23 35	E
6	F.	5 55	17 59	.....	13 01	
7	Sa.	6 34	18 44	0 17	13 45	
8	S.	7 12	19 31	0 58	14 30	
9	M.	7 51	20 22	2 05	14 52	
10	Tu.	8 32	21 21	2 50	15 42	
11	W.	9 18	22 33	3 39	16 35	
12	Th.	10 12	23 56	4 37	17 30	
13	F.	11 16	.....	5 56	18 26	
14	Sa.	1 14	12 25	7 34	19 19	
15	S.	2 11	13 23	8 49	20 07	
16	M.	2 52	14 12	9 37	20 48	
17	Tu.	3 27	14 55	10 15	21 27	
18	W.	3 59	15 35	10 51	22 05	
19	Th.	4 30	16 14	11 26	22 42	
20	F.	5 01	16 53	12 00	23 19	
21	Sa.	5 33	17 33	12 36	23 57	
22	S.	6 06	18 14	.....	13 14	
23	M.	6 40	18 57	0 36	13 30	
24	Tu.	7 17	19 47	1 41	14 16	
25	W.	7 59	20 49	2 24	15 08	
26	Th.	8 48	22 05	3 18	16 08	
27	F.	9 51	23 33	4 29	17 13	
28	Sa.	11 04	.....	5 59	18 16	
29	S.	0 52	12 24	7 24	19 16	

## MARCH.

Date	Day.	H.W. SLACK.		L.W. SLACK.		Moon.
		Morn'g.	After'n.	Morn'g.	After'n.	
1	M.	1 55	12 36	8 38	20 12	
2	Tu.	2 46	14 37	9 38	21 04	
3	W.	3 30	15 28	10 26	21 52	
4	Th.	4 10	16 14	11 07	22 37	
5	F.	4 48	16 59	11 47	23 20	E
6	Sa.	5 25	17 43	.....	12 01	
7	S.	6 01	18 26	0 27	12 41	
8	M.	6 36	19 10	1 08	13 22	
9	Tu.	7 10	19 56	1 49	14 04	
10	W.	7 45	20 48	2 32	14 49	
11	Th.	8 22	21 51	3 24	15 37	
12	F.	9 09	23 11	4 31	16 29	
13	Sa.	10 17	.....	6 02	17 26	S
14	S.	0 29	11 44	7 26	18 25	
15	M.	1 28	12 54	8 27	19 21	
16	Tu.	2 09	13 48	9 08	20 11	
17	W.	2 44	14 35	9 43	20 56	
18	Th.	3 18	15 18	10 16	21 37	
19	F.	3 51	16 00	10 48	22 17	
20	Sa.	4 24	16 41	10 57	22 57	
21	S.	4 57	17 23	11 34	.....	
22	M.	5 31	18 06	0 03	12 15	
23	Tu.	6 06	18 51	0 46	13 00	
24	W.	6 44	19 41	1 33	13 49	
25	Th.	7 28	20 40	2 27	14 42	
26	F.	8 21	21 52	3 30	15 38	
27	Sa.	9 29	23 18	4 49	16 38	
28	S.	10 51	.....	6 19	17 43	
29	M.	0 29	12 18	7 41	18 50	
30	Tu.	1 31	13 32	8 43	19 51	
31	W.	2 20	14 33	9 28	20 45	

## APRIL.

Date	Day.	H.W. SLACK.		L.W. SLACK.		Moon.
		Morn'g.	After'n.	Morn'g.	After'n.	
1	Th.	3 02	15 24	9 40	21 31	E
2	F.	3 30	16 08	10 16	22 40	
3	Sa.	4 16	16 49	10 51	23 22	
4	S.	4 50	17 29	11 26	.....	
5	M.	5 23	18 08	0 03	12 02	
6	Tu.	5 55	18 48	0 45	12 39	
7	W.	6 28	19 30	1 30	13 17	
8	Th.	7 02	20 18	2 18	13 57	
9	F.	7 39	21 15	3 14	14 40	
10	Sa.	8 24	22 21	4 16	15 28	
11	S.	9 24	23 36	5 40	16 23	
12	M.	10 47	.....	6 54	17 23	
13	Tu.	0 38	12 09	7 51	18 24	
14	W.	1 24	13 16	8 33	19 22	
15	Th.	2 01	14 10	9 07	20 15	
16	F.	2 36	14 57	9 15	21 28	
17	Sa.	3 10	15 42	9 49	22 14	
18	S.	3 45	16 26	10 25	22 59	
19	M.	4 21	17 11	11 04	23 46	
20	Tu.	4 58	17 57	11 46	.....	
21	W.	5 37	18 45	0 36	12 32	
22	Th.	6 20	19 38	1 31	13 21	
23	F.	7 09	20 37	2 34	14 13	
24	Sa.	8 08	21 43	3 46	15 08	
25	S.	9 21	22 53	5 07	15 47	
26	M.	10 47	.....	6 33	17 12	
27	Tu.	0 03	12 09	7 42	18 20	
28	W.	1 00	13 21	8 31	19 48	
29	Th.	1 47	14 18	8 43	20 44	
30	F.	2 27	15 05	9 16	21 32	

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours, from midnight to midnight.

The VELOCITY of the current at the maximum, is 6 to 7 knots.

The Moon's Declination is indicated thus: E, moon on the equator; N, moon farthest north, and S, moon farthest south of the equator.

## MAY.

Date.	Day.	H. W. SLACK.		L. W. SLACK.		Moon.	H. W. SLACK.		L. W. SLACK.		Moon.
		Morn'g.	After'n.	Morn'g.	After'n.		Morn'g.	After'n.	Morn'g.	After'n.	
1	Sa.	H. 3 05	M. 15 48	H. 9 48	M. 22 19		H. 3 43	M. 16 56	H. 10 27	M. 23 39	S
2	S.	3 41	16 30	10 21	23 05		4 17	17 33	11 00	...	
3	M.	4 16	17 11	10 55	23 50	S	4 52	18 09	0 23	11 34	
4	Tu.	4 50	17 51	11 30	...		5 28	18 45	1 07	12 08	
5	W.	5 23	18 30	0 34	12 05		6 05	19 22	1 53	12 43	
6	Th.	5 56	19 09	1 19	12 41		6 44	20 01	2 41	13 21	
7	F.	6 30	19 51	2 06	13 18		7 26	20 44	3 30	14 02	
8	Sa.	7 08	20 38	2 59	13 58		8 12	21 32	4 22	14 47	
9	S.	7 51	21 30	3 59	14 41		9 16	22 26	5 15	15 36	H
10	M.	8 46	22 29	5 04	15 29		10 37	23 31	6 08	16 54	
11	Tu.	10 00	23 31	6 07	16 26		11 04	13 14	7 23	19 09	
12	W.	11 29	...	7 02	17 28	E	12 04	8 09	20 20		
13	Th.	0 25	12 44	7 47	18 56		13 06	14 19	8 09	19 09	
14	F.	1 11	13 44	8 00	19 57		14 55	15 09	8 53	21 27	N
15	Sa.	1 52	14 35	8 37	20 54		15 43	15 58	9 36	22 29	
16	S.	2 32	15 23	9 15	21 48		16 32	16 46	10 20	23 28	
17	M.	3 11	16 10	9 55	22 41		17 22	17 33	11 05	...	
18	Tu.	3 51	16 56	10 38	23 35	N	18 12	18 20	0 26	11 51	
19	W.	4 34	17 43	11 24	...		19 01	19 08	1 23	12 38	
20	Th.	5 20	18 32	0 31	12 12		19 57	2 19	13 24		
21	F.	6 10	19 24	1 30	13 01		20 45	4 17	14 11		
22	Sa.	7 03	20 19	2 32	13 51		21 40	4 17	15 00	R	
23	S.	8 00	21 18	3 39	14 42		22 38	5 22	16 18		
24	M.	9 07	22 21	4 54	15 35		23 39	6 01	17 18		
25	Tu.	10 31	23 27	6 11	16 32		24 27	12 44	6 56	18 29	
26	W.	11 54	...	6 49	17 59		25 35	13 49	7 42	19 46	
27	Th.	0 25	13 05	7 38	19 05		26 24	14 42	8 21	20 55	
28	F.	1 15	14 04	8 16	20 13		28 05	15 25	8 57	21 53	S
29	Sa.	1 58	14 53	8 50	21 14		29 43	16 05	9 32	22 42	
30	S.	2 34	15 36	9 23	22 07		30 22	16 40	10 06	23 24	
31	M.	3 09	16 17	9 55	22 54						

## JULY.

	H. M.	H. M.	H. M.	H. M.	H. M.		H. M.	H. M.	H. M.	H. M.	
1	Th.	H. 3 59	M. 17 16	H. 10 39	M. ....		H. 5 02	M. 17 50	H. 0 11	M. 11 26	E
2	F.	4 36	17 51	0 04	11 12		5 37	18 21	0 45	M. 12 02	
3	Sa.	5 12	18 25	0 43	11 46		6 13	18 53	1 22	12 37	
4	S.	5 49	18 54	1 22	12 21		6 52	19 27	2 02	13 13	
5	M.	6 27	19 30	2 02	12 57		7 38	20 04	2 47	13 51	
6	Tu.	7 07	20 04	2 44	13 35	E	8 30	20 45	3 13	14 56	
7	W.	7 52	20 41	3 31	14 15		9 38	21 37	4 10	15 43	
8	Th.	8 50	21 27	4 22	15 23		11 05	22 46	5 11	17 04	N
9	F.	10 04	22 24	4 52	16 12		12 33	6 14	18 37		
10	Sa.	11 31	23 29	5 49	17 18		13 05	13 42	7 15	19 57	
11	S.	12 53	14 04	6 46	18 43		14 15	14 37	10 20	21 07	
12	M.	0 35	14 04	7 39	20 00	N	2 16	15 25	8 59	22 07	
13	Tu.	1 35	14 59	8 30	21 10		3 11	16 09	9 46	22 59	
14	W.	2 31	15 47	9 19	22 14		4 03	16 51	10 42	23 45	
15	Th.	3 24	16 33	10 06	23 11		4 53	17 32	11 17	...	
16	F.	4 15	17 17	10 51	...		5 42	18 12	0 30	12 01	
17	Sa.	5 04	18 00	0 05	11 35		6 30	18 51	0 49	12 44	
18	S.	5 52	18 43	0 58	12 20		7 17	19 31	1 34	13 53	
19	M.	6 42	19 27	1 50	13 04		8 06	20 13	2 21	14 39	
20	Tu.	7 35	20 12	2 42	13 49		9 03	20 58	3 11	15 28	
21	W.	8 31	21 00	3 10	15 00		10 12	21 51	4 05	16 26	
22	Th.	9 36	21 52	4 05	15 49		11 37	22 54	5 04	17 44	S
23	F.	10 54	22 48	5 04	16 47		12 53	6 07	19 21		
24	Sa.	12 17	23 48	6 05	17 59		13 53	7 05	20 35		
25	S.	13 25	7 01	19 29	...		14 37	7 54	21 29		
26	M.	0 46	14 21	7 48	20 50	S	2 02	15 12	8 36	22 04	
27	Tu.	1 37	15 16	8 28	21 50		2 45	15 45	9 15	22 36	
28	W.	2 22	15 43	9 05	22 33		3 25	16 16	9 53	23 07	
29	Th.	3 05	16 17	9 41	23 07		4 04	16 45	10 30	23 39	
30	F.	3 46	16 49	10 16	23 39		4 42	17 13	11 07	...	
31	Sa.	4 25	17 20	10 51	...		5 20	17 42	0 13	11 44	E

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours, from midnight to midnight.

The VELOCITY of the current, at the maximum, is 6 to 7 knots.

The Moon's Declination is indicated thus: E, moon on the equator; N, moon farthest north, and S, moon farthest south of the equator.

## SLACK WATER.—ACTIVE PASS, B.C.—1920.

## SEPTEMBER.

Date.	Day.	H. W. SLACK.		L. W. SLACK.		Moon.
		Morn'g.	After'n.	Morn'g.	After'n.	
1	W.	H. 5	M. 59	H. 18	M. 12	H. M.
2	Th.	6	39	18	45	0 24
3	F.	7	22	19	22	12 56
4	Sa.	8	17	20	05	13 26
5	S.	9	26	21	03	14 07
6	M.	10	50	22	21	14 53
7	Tu.	12	19	23	49	15 57
8	W.	.....	.....	13	29	N
9	Th.	1	07	14	21	6 44
10	F.	2	10	15	03	20 01
11	Sa.	3	03	15	42	21 52
12	S.	3	52	16	20	22 52
13	M.	4	40	16	59	23 32
14	Tu.	5	27	17	38	12 08
15	W.	6	13	18	16	12 52
16	Th.	6	58	18	53	0 13
17	F.	7	45	19	30	0 55
18	Sa.	8	35	20	09	13 37
19	S.	9	33	20	53	1 38
20	M.	10	48	21	59	14 24
21	Tu.	12	11	23	25	15 14
22	W.	.....	.....	13	12	16 03
23	Th.	0	39	13	54	16 59
24	F.	1	30	14	30	17 43
25	Sa.	2	26	15	02	18 32
26	S.	3	07	15	33	19 16
27	M.	3	47	16	03	20 59
28	Tu.	4	26	16	34	21 52
29	W.	5	06	17	06	22 59
30	Th.	5	47	17	41	23 29

## OCTOBER.

Date.	Day.	H. W. SLACK.		L. W. SLACK.		Moon.
		Morn'g.	After'n.	Morn'g.	After'n.	
1	F.	H. 6	M. 30	H. 18	M. 19	H. M.
2	Sa.	7	17	19	01	0 31
3	S.	8	13	20	50	1 14
4	M.	9	19	20	49	2 02
5	Tu.	10	34	22	03	2 56
6	W.	11	51	23	38	3 17
7	Th.	.....	.....	12	56	4 02
8	F.	0	59	13	49	4 18
9	Sa.	2	03	14	32	5 09
10	S.	2	56	15	11	5 21
11	M.	3	44	15	48	6 22
12	Tu.	4	30	16	24	7 03
13	W.	5	14	16	59	7 23
14	Th.	5	57	17	34	8 41
15	F.	6	39	18	09	9 12
16	Sa.	7	22	18	45	10 25
17	S.	8	07	19	24	11 14
18	M.	8	57	20	08	12 06
19	Tu.	10	01	21	06	13 11
20	W.	11	17	22	25	14 26
21	Th.	12	17	23	54	15 45
22	F.	.....	.....	13	04	16 41
23	Sa.	1	04	13	43	17 18
24	S.	1	57	14	18	18 36
25	M.	2	42	14	52	19 20
26	Tu.	3	26	15	26	20 04
27	W.	4	09	16	00	21 22
28	Th.	4	52	16	35	22 38
29	F.	5	37	17	12	23 20
30	Sa.	6	24	17	54	24 12
31	S.	7	14	18	42	15 18

## NOVEMBER.

		H. W. SLACK.		L. W. SLACK.		
		Morn'g.	After'n.	Morn'g.	After'n.	
1	M.	H. 8	M. 09	H. 19	M. 36	H. M.
2	Tu.	9	10	20	37	1 39
3	W.	10	15	21	55	2 30
4	Th.	11	21	23	31	3 25
5	F.	.....	.....	12	25	4 26
6	Sa.	0	49	13	18	5 59
7	S.	1	51	14	02	19 51
8	M.	2	43	14	41	E
9	Tu.	3	31	15	19	10 02
10	W.	4	16	15	56	22 02
11	Th.	4	59	16	32	22 37
12	F.	5	40	17	07	23 48
13	Sa.	6	20	17	42	24 14
14	S.	7	01	18	18	25 14
15	M.	7	44	18	56	0 03
16	Tu.	8	29	19	39	1 39
17	W.	9	17	20	30	2 18
18	Th.	10	09	21	36	3 18
19	F.	11	04	23	00	4 09
20	Sa.	.....	.....	12	00	4 54
21	S.	0	19	12	48	18 54
22	M.	1	24	13	31	19 46
23	Tu.	2	18	14	11	20 19
24	W.	3	05	14	50	20 56
25	Th.	3	55	15	30	21 36
26	F.	4	39	16	12	22 18
27	Sa.	5	25	16	57	23 47
28	S.	6	12	17	45	23 07
29	M.	7	00	18	35	14 07
30	Tu.	7	50	19	29	15 09

## DECEMBER.

Date.	Day.	H. W. SLACK.		L. W. SLACK.		
		Morn'g.	After'n.	Morn'g.	After'n.	
1	W.	H. 8	M. 45	H. 20	M. 30	H. M.
2	Th.	9	45	21	45	3 03
3	F.	10	48	23	12	4 23
4	Sa.	11	49	.....	.....	5 24
5	S.	0	30	12	44	6 32
6	M.	1	36	13	31	7 19
7	Tu.	2	33	14	14	8 24
8	W.	3	22	14	54	9 02
9	Th.	4	06	15	31	10 13
10	F.	4	47	16	07	11 22
11	Sa.	5	26	16	42	12 47
12	S.	6	03	17	17	13 20
13	M.	6	39	17	53	14 54
14	Tu.	7	14	18	31	15 31
15	W.	7	50	19	11	1 05
16	Th.	8	28	19	56	15 17
17	F.	9	10	20	54	2 23
18	Sa.	9	59	22	09	3 16
19	S.	10	54	23	32	4 25
20	M.	11	50	.....	.....	5 29
21	Tu.	0	46	12	43	6 19
22	W.	1	50	13	33	7 46
23	Th.	2	47	14	22	8 30
24	F.	3	39	15	10	9 21
25	Sa.	4	27	15	57	10 59
26	S.	5	13	16	44	11 45
27	M.	5	58	17	32	12 56
28	Tu.	6	42	18	22	1 14
29	W.	7	27	19	17	13 50
30	Th.	8	15	20	19	14 45
31	F.	9	07	21	29	15 42

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours, from midnight to midnight.

The VELOCITY of the current at the maximum, is 6 to 7 knots.

The Moon's Declination is indicated thus: E, moon on the equator; N, moon farthest north, and S, moon farthest south of the equator.

## SLACK WATER.—PORLIER PASS, B.C.—1920.

51

## JANUARY.

Date	Day	H. W. SLACK.		L. W. SLACK.		Moon.	H. W. SLACK.		L. W. SLACK.		Moon.
		Morn'g.	After'n.	Morn'g.	After'n.		Morn'g.	After'n.	Morn'g.	After'n.	
W 1	Th.	11	13	.....	.....	H.	5	21	19	08	M.
2	F.	0	38	12	10	N	6	38	19	58	M.
3	Sa.	1	37	13	05		7	59	20	47	
4	S.	2	32	13	59		9	13	21	35	
5	M.	3	24	14	54		10	18	22	22	
6	Tu.	4	14	15	50		11	15	23	07	
7	W.	5	02	16	44		12	08	23	51	
8	Th.	5	48	17	36		13	00	18	25	
9	F.	6	32	18	27		0	34	13	51	
10	Sa.	7	15	19	19	E	1	18	14	43	
11	S.	7	59	20	14		2	03	15	38	
12	M.	8	45	21	17		2	49	16	36	
13	Tu.	9	37	22	37		3	38	17	33	
14	W.	10	37	23	59		4	34	18	25	
15	Th.	11	38	.....	.....		5	45	19	11	
16	F.	1	07	12	30		7	12	19	54	
17	Sa.	1	59	13	15		8	25	20	33	
18	S.	2	42	13	55		9	27	21	11	
19	M.	3	17	14	33		10	14	21	48	
20	Tu.	3	51	15	10		10	52	22	24	
21	W.	4	24	15	47		11	28	22	59	
22	Th.	4	56	16	25		12	03	23	34	
23	F.	5	27	17	04		12	39	13	17	
24	Sa.	5	59	17	45	E	0	10	13	17	
25	S.	6	32	18	30		0	47	13	58	
26	M.	7	18	19	20		1	25	14	45	
27	Tu.	7	50	20	21		2	05	15	39	
28	W.	8	39	21	38		2	49	16	38	
29	Th.	9	39	23	09		3	49	17	39	
30	F.	10	48	.....	.....		5	16	18	39	
31	Sa.	0	28	11	59	N	6	45	19	35	

## MARCH.

Date	Day	H. M.	H. M.	H. M.	H. M.	Moon.	1	H. M.	H. M.	H. M.	E
		Morn'g.	After'n.	Morn'g.	After'n.		Morn'g.	After'n.	Morn'g.	After'n.	
1	M.	1	18	12	05	H.	8	06	20	05	
2	Tu.	2	15	14	06	N	9	06	20	57	
3	W.	2	59	14	57		9	54	21	45	
4	Th.	3	39	15	43		10	35	22	30	
5	F.	4	17	16	28		11	15	23	13	
6	Sa.	4	54	17	12		11	54	23	55	
7	S.	5	30	17	55		12	34	13	15	
8	M.	6	05	18	39		0	36	13	15	
9	Tu.	6	39	19	25		1	17	13	57	
10	W.	7	14	20	17		2	00	14	42	
11	Th.	7	51	21	20		2	52	15	30	
12	F.	8	38	22	40		3	59	16	22	
13	Sa.	9	46	23	58		5	30	17	19	
14	S.	11	13	.....	.....		6	54	18	18	
15	M.	0	57	12	23		7	55	19	14	
16	Tu.	1	33	13	17		8	36	20	04	
17	W.	2	13	14	04		9	11	20	49	
18	Th.	2	47	14	47		9	44	21	30	
19	F.	3	20	15	29		10	16	22	10	
20	Sa.	3	53	16	10		10	50	22	50	
21	M.	4	26	16	52		11	27	23	31	
22	Tu.	5	00	17	35		12	08	17	32	
23	W.	5	35	18	20		0	14	12	53	
24	Th.	6	13	19	10		1	01	13	42	
25	F.	6	57	20	09		1	55	14	35	
26	Sa.	7	50	21	21		2	58	15	31	
27	M.	8	58	22	47		4	17	16	31	
28	S.	10	20	.....	.....		5	47	17	36	
29	M.	0	01	11	47		7	09	18	43	
30	Tu.	1	00	13	01		8	11	19	44	
31	W.	1	49	14	02		8	56	20	38	

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours, from midnight to midnight.

The VELOCITY of the current at the maximum, is 4 to 8 knots.

The Moon's Declination is indicated thus : E, moon on the equator ; N, moon farthest north, and S, moon farthest south of the equator.

## SLACK WATER.—PORLIER PASS, B.C.—1920.

		MAY.				JUNE.								
Date.	Day.	H. W. SLACK.		L. W. SLACK.		Moon.	Date.	Day.	H. W. SLACK.		L. W. SLACK.		Moon.	
		Morn'g.	After'n.	Morn'g.	After'n.				Morn'g.	After'n.	Morn'g.	After'n.		
1	Sa.	H. 2	M. 40	H. 15	M. 29		H. 3	M. 22	H. 16	M. 11	H. 9	M. 41	H. 21	M. 47
2	Sa.	H. 3	M. 22	H. 16	M. 11		H. 4	M. 21	H. 17	M. 32	H. 10	M. 14	H. 22	M. 33
3	M.	H. 3	M. 57	H. 16	M. 52		H. 5	M. 10	H. 48	M. 23	H. 23	M. 18		S
4	Tu.	H. 4	M. 31	H. 17	M. 32		H. 6	M. 11	H. 23	M. 23			H. 4	M. 36
5	W.	H. 5	M. 04	H. 18	M. 11		H. 7	M. 0	H. 02	M. 11	H. 11	M. 58		
6	Th.	H. 5	M. 37	H. 18	M. 50		H. 8	M. 0	H. 47	M. 12	H. 12	M. 34		
7	F.	H. 6	M. 11	H. 19	M. 32		H. 9	M. 1	H. 34	M. 13	H. 13	M. 11		
8	Sa.	H. 6	M. 49	H. 20	M. 19		H. 10	M. 2	H. 27	M. 13	H. 13	M. 51		
9	S.	H. 7	M. 32	H. 21	M. 11		H. 11	M. 3	H. 27	M. 14	H. 14	M. 34		
10	M.	H. 8	M. 27	H. 22	M. 10		H. 12	M. 4	H. 32	M. 15	H. 15	M. 22		
11	Tu.	H. 9	M. 41	H. 23	M. 12		H. 13	M. 5	H. 35	M. 16	H. 16	M. 19		E
12	W.	H. 11	M. 10				H. 16	M. 6	H. 30	M. 17	H. 17	M. 21		
13	Th.	H. 0	M. 06	H. 12	M. 25		H. 17	M. 7	H. 15	M. 24			H. 18	M. 37
14	F.	H. 0	M. 52	H. 13	M. 25		H. 18	M. 7	H. 53	M. 19	H. 19	M. 25		N
15	Sa.	H. 1	M. 33	H. 14	M. 16		H. 19	M. 8	H. 30	M. 20	H. 20	M. 22		
16	S.	H. 2	M. 13	H. 15	M. 04		H. 20	M. 9	H. 08	M. 21	H. 21	M. 16		
17	M.	H. 2	M. 52	H. 15	M. 51		H. 21	M. 9	H. 48	M. 22	H. 22	M. 09		
18	Tu.	H. 3	M. 32	H. 16	M. 37		H. 22	M. 10	H. 31	M. 23	H. 23	M. 03		
19	W.	H. 4	M. 15	H. 17	M. 24		H. 23	M. 11	H. 17	M. 23	H. 23	M. 59		
20	Th.	H. 5	M. 01	H. 18	M. 13		H. 24	M. 12	H. 05	M. 12	H. 12	M. 05		
21	F.	H. 5	M. 51	H. 19	M. 05		H. 25	M. 0	H. 58	M. 12	H. 12	M. 54		E
22	Sa.	H. 6	M. 44	H. 20	M. 00		H. 26	M. 2	H. 00	M. 13	H. 13	M. 44		
23	S.	H. 7	M. 41	H. 20	M. 59		H. 27	M. 3	H. 07	M. 14	H. 14	M. 35		
24	M.	H. 8	M. 48	H. 22	M. 02		H. 28	M. 4	H. 22	M. 15	H. 15	M. 28		
25	Tu.	H. 10	M. 12	H. 23	M. 08		H. 29	M. 5	H. 39	M. 16	H. 16	M. 25		
26	W.	H. 11	M. 35				H. 30	M. 6	H. 42	M. 17	H. 17	M. 27		
27	Th.	H. 0	M. 06	H. 12	M. 46		H. 31	M. 7	H. 31	M. 18	H. 18	M. 33		
28	F.	H. 0	M. 56	H. 13	M. 45		H. 32	M. 8	H. 09	M. 19	H. 19	M. 41		
29	Sa.	H. 1	M. 39	H. 14	M. 34		H. 33	M. 8	H. 43	M. 20	H. 20	M. 42		S
30	S.	H. 2	M. 15	H. 15	M. 17		H. 34	M. 9	H. 16	M. 21	H. 21	M. 35		
31	M.	H. 2	M. 50	H. 15	M. 58		H. 35	M. 9	H. 48	M. 22	H. 22	M. 22		
JULY.														
1	Th.	H. 3	M. 43	H. 17	M. 00		H. 10	M. 32	H. 23	M. 32			H. 17	M. 31
2	F.	H. 4	M. 20	H. 17	M. 35		H. 11	M. 05			H. 18	M. 18		
3	Sa.	H. 4	M. 56	H. 18	M. 09		H. 0	M. 11	H. 11	M. 39	H. 5	M. 54		
4	S.	H. 5	M. 33	H. 18	M. 42		H. 6	M. 0	H. 50	M. 12	H. 12	M. 14		E
5	M.	H. 6	M. 11	H. 19	M. 14		H. 7	M. 1	H. 30	M. 12	H. 12	M. 50		
6	Tu.	H. 6	M. 51	H. 19	M. 48		H. 8	M. 2	H. 12	M. 13	H. 13	M. 28		
7	W.	H. 7	M. 36	H. 20	M. 25		H. 9	M. 2	H. 59	M. 14	H. 14	M. 08		
8	Th.	H. 8	M. 34	H. 21	M. 11		H. 10	M. 3	H. 50	M. 14	H. 14	M. 51		
9	F.	H. 9	M. 48	H. 22	M. 08		H. 11	M. 4	H. 45	M. 15	H. 15	M. 40		
10	Sa.	H. 11	M. 15	H. 23	M. 13		H. 12	M. 5	H. 42	M. 16	H. 16	M. 46		
11	S.			H. 12	M. 37		H. 13	M. 6	H. 39	M. 18	H. 18	M. 11		
12	M.	H. 0	M. 19	H. 13	M. 48		H. 14	M. 7	H. 32	M. 19	H. 19	M. 28		
13	Tu.	H. 1	M. 19	H. 14	M. 43		H. 15	M. 8	H. 23	M. 20	H. 20	M. 38		N
14	W.	H. 2	M. 15	H. 15	M. 31		H. 16	M. 9	H. 12	M. 21	H. 21	M. 42		
15	Th.	H. 3	M. 08	H. 16	M. 17		H. 17	M. 9	H. 59	M. 22	H. 22	M. 39		
16	F.	H. 3	M. 59	H. 17	M. 01		H. 18	M. 10	H. 44	M. 23	H. 23	M. 33		
17	Sa.	H. 4	M. 48	H. 17	M. 44		H. 19	M. 11	H. 28	M. 23				
18	S.	H. 5	M. 36	H. 18	M. 27		H. 20	M. 0	H. 26	M. 12	H. 12	M. 13		
19	M.	H. 6	M. 26	H. 19	M. 11		H. 21	M. 1	H. 18	M. 12	H. 12	M. 57		
20	Tu.	H. 7	M. 19	H. 19	M. 56		H. 22	M. 2	H. 10	M. 13	H. 13	M. 42		
21	W.	H. 8	M. 15	H. 20	M. 44		H. 23	M. 3	H. 03	M. 14	H. 14	M. 28		
22	Th.	H. 9	M. 20	H. 21	M. 36		H. 24	M. 3	H. 58	M. 15	H. 15	M. 17		
23	F.	H. 10	M. 38	H. 22	M. 32		H. 25	M. 4	H. 57	M. 16	H. 16	M. 15		
24	Sa.	H. 12	M. 01	H. 23	M. 32		H. 26	M. 5	H. 58	M. 17	H. 17	M. 27		
25	S.			H. 13	M. 09		H. 27	M. 6	H. 54	M. 18	H. 18	M. 57		
26	M.	H. 0	M. 30	H. 14	M. 05		H. 28	M. 7	H. 41	M. 20	H. 20	M. 18		
27	Tu.	H. 1	M. 21	H. 14	M. 50		H. 29	M. 8	H. 21	M. 21	H. 21	M. 18		
28	W.	H. 2	M. 06	H. 15	M. 27		H. 30	M. 8	H. 58	M. 22	H. 22	M. 01		
29	Th.	H. 2	M. 49	H. 16	M. 01		H. 31	M. 9	H. 34	M. 22	H. 22	M. 35		
30	F.	H. 3	M. 30	H. 16*	M. 33		H. 32	M. 10	H. 09	M. 23	H. 23	M. 07		
31	Sa.	H. 4	M. 09	H. 17	M. 04		H. 33	M. 10	H. 44	M. 23	H. 23	M. 39		
AUGUST.														
1	S.	H. 4	M. 43	H. 17	M. 31		H. 5	M. 5	H. 18	M. 02	H. 18	M. 02		
2	M.	H. 5	M. 18	H. 18	M. 34		H. 6	M. 5	H. 34	M. 18	H. 18	M. 34		
3	Tu.	H. 5	M. 54	H. 18	M. 34		H. 7	M. 6	H. 33	M. 19	H. 19	M. 08		
4	W.	H. 6	M. 33	H. 19	M. 45		H. 8	M. 7	H. 19	M. 20	H. 20	M. 26		
5	F.	H. 7	M. 19	H. 20	M. 18		H. 9	M. 8	H. 19	M. 21	H. 21	M. 18		
6	S.	H. 8	M. 19	H. 21	M. 46		H. 10	M. 9	H. 46	M. 22	H. 22	M. 27		
7	M.	H. 12	M. 14	H. 22	M. 46		H. 11	M. 12	H. 46	M. 23	H. 23	M. 46		
8	Tu.	H. 13	M. 23	H. 23	M. 46		H. 12	M. 11	H. 18	M. 23	H. 18	M. 08		
9	W.	H. 0	M. 56	H. 14	M. 18		H. 11	M. 0	H. 56	M. 14	H. 14	M. 35		
10	Th.	H. 1	M. 57	H. 15	M. 06		H. 12	M. 1	H. 57	M. 15	H. 15	M. 35		
11	F.	H. 2	M. 52	H. 15	M. 50		H. 13	M. 2	H. 52	M. 15	H. 15	M. 50		
12	S.	H. 3	M. 44	H. 16	M. 32		H. 14	M. 3	H. 44	M. 16	H. 16	M. 32		
13	M.	H. 4	M. 34	H. 17	M. 13		H. 15	M. 4	H. 34	M. 17	H. 17	M. 13		
14	Sa.	H. 5	M. 23	H. 17	M. 13		H. 16	M. 5	H. 23	M. 17	H. 17	M. 10		
15	S.	H. 6	M. 23	H. 17	M. 53		H. 17	M. 6	H. 23	M. 17	H. 17	M. 53		E
16	M.	H. 6	M. 11	H. 18	M. 32		H. 18	M. 6	H. 11	M. 18	H. 18	M. 32		
17	Tu.	H. 6	M. 6	H. 18	M. 32		H. 19	M. 7	H. 58	M. 19	H. 19	M. 12		
18	W.	H. 6	M. 6	H. 18	M. 32		H. 20	M. 8	H. 58	M. 19	H. 19	M. 12		
19	Th.	H. 7	M. 47	H. 19	M. 54		H. 21	M. 9	H. 44	M. 20	H. 20	M. 39		
20	F.	H. 8	M. 44	H. 20	M. 39		H. 22	M. 10	H. 44	M. 21	H. 21	M. 32		
21	Sa.	H. 9	M. 53	H. 21	M. 32		H. 23	M. 11	H. 53	M. 21	H. 21	M. 32		
22	S.	H. 11	M. 18	H. 22	M. 35		H. 24	M. 12	H. 34	M. 22	H. 22	M. 35		
23	M.	H. 12	M. 34	H. 23	M. 46		H. 25	M. 13	H. 34	M. 23	H. 23	M. 46		
24	Tu.	H. 0	M. 52	H. 14	M. 18		H. 26	M. 1	H. 43	M. 14	H. 14	M. 53		
25	W.	H. 1	M. 43	H. 14	M. 53		H. 27	M. 2	H. 26	M. 15	H. 15	M. 26		
26	Th.	H. 1	M. 43	H. 14	M. 53		H. 28	M. 3	H. 06	M. 15	H. 15	M. 57		
27	F.	H. 2	M. 26	H. 15	M. 27		H. 29	M. 3	H. 45	M. 16	H. 16	M. 26		
28	S.	H. 3	M. 06	H. 15	M. 27		H. 30	M. 4	H. 23	M. 16	H. 16	M. 54		
29	W.	H. 2	M. 49	H. 16	M. 01		H. 31	M. 5	H. 01	M. 17	H. 17	M. 23		
30	F.	H. 3	M. 30	H. 16*	M. 33		H. 32	M. 6	H. 44	M. 23	H. 23	M. 39		
31	Sa.	H. 4	M. 09	H. 17	M. 04		H. 33	M. 7	H. 44	M. 23	H. 23	M. 37		

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours, from midnight to midnight.

The VELOCITY of the current at the maximum, is 4 to 8 knots.

The Moon's Declination is indicated thus: E, moon on the equator; N, moon farthest north, and S, moon farthest south of the equator.

## SEPTEMBER.

Date.	Day.	H. W. SLACK.		L. W. SLACK.		Moon.	Date.	Day.	H. W. SLACK.		L. W. SLACK.		Moon.
		Morn'g.	After'n.	Morn'g.	After'n.				Morn'g.	After'n.	Morn'g.	After'n.	
1	W.	5 34	17 47	0 17	12 24		1	F.	5 59	17 48	0 24	12 42	N
2	Th.	6 14	18 20	0 56	12 54		2	Sa.	6 46	18 30	1 07	13 32	
3	F.	6 57	18 57	1 38	13 35		3	S.	7 42	19 19	1 55	14 30	
4	Sa.	7 52	19 40	2 26	14 21		4	M.	8 48	20 18	2 49	15 42	
5	S.	9 01	20 38	3 22	15 25	N	5	Tu.	10 03	21 32	3 49	17 04	
6	M.	10 25	21 56	4 27	16 48		6	W.	11 20	23 07	4 55	18 24	
7	Tu.	11 54	23 24	5 34	18 15		7	Th.	12 25	6 03	19 30		
8	W.	13 04	6 37	19 29			8	F.	0 28	13 18	7 09	20 21	E
9	Th.	0 42	13 56	7 34	20 30		9	Sa.	1 32	14 01	8 07	21 02	
10	F.	1 45	14 38	8 27	21 20		10	S.	2 25	14 40	9 00	21 41	
11	Sa.	2 38	15 17	9 17	22 03		11	M.	3 13	15 17	9 49	22 19	
12	S.	3 27	15 55	10 05	22 45	E	12	Tu.	3 59	15 53	10 35	22 56	
13	M.	4 15	16 34	10 51	23 25		13	W.	4 43	16 28	11 20	23 34	
14	Tu.	5 02	17 13	11 36			14	Th.	5 26	17 03	12 06		
15	W.	5 48	17 51	0 06	12 20		15	F.	6 08	17 38	0 13	12 53	S
16	Th.	6 33	18 28	0 48	13 05		16	Sa.	6 51	18 14	0 53	13 42	
17	F.	7 20	19 05	1 31	13 52		17	S.	7 36	18 53	1 34	14 34	
18	Sa.	8 10	19 44	2 17	14 42		18	M.	8 26	19 37	2 16	15 39	
19	S.	9 08	20 28	3 05	15 44	S	19	Tu.	9 30	20 35	3 00	16 54	
20	M.	10 23	21 34	3 56	17 11		20	W.	10 46	21 54	3 49	18 13	
21	Tu.	11 46	23 00	4 53	18 46		21	Th.	11 46	23 23	4 47	19 09	
22	W.	12 47	5 55	19 48			22	F.	12 33	5 49	19 46		
23	Th.	0 17	13 29	6 50	20 24		23	Sa.	0 33	13 12	6 49	20 17	E
24	F.	1 15	14 05	7 40	20 56		24	S.	1 26	13 47	7 43	20 47	
25	Sa.	2 01	14 37	8 25	21 27		25	M.	2 11	14 21	8 33	21 19	
26	S.	2 42	15 08	9 09	21 57		26	Tu.	2 55	14 55	9 21	21 53	
27	M.	3 22	15 38	9 51	22 29		27	W.	3 38	15 29	10 08	22 31	
28	Tu.	4 01	16 09	10 32	23 04		28	F.	4 21	16 04	10 56	23 13	
29	W.	4 41	16 41	11 14	23 43		29	S.	5 53	17 23	12 39	N	
30	Th.	5 22	17 16	11 57			30	S.	6 43	18 11	0 44	13 37	

## NOVEMBER.

Date.	Day.	H. M.		H. M.		H. M.	Date.	Day.	H. M.		H. M.		H. M.
		Morn'g.	After'n.	Morn'g.	After'n.				Morn'g.	After'n.	Morn'g.	After'n.	
1	M.	7 32	18 59	1 32	14 41		1	W.	8 05	19 50	2 04	15 42	
2	Tu.	8 33	20 00	2 23	15 53		2	Th.	9 05	21 05	2 56	16 50	E
3	W.	9 38	21 18	3 18	17 12		3	F.	10 08	22 32	3 51	17 54	
4	Th.	10 44	22 54	4 19	18 22		4	Sa.	11 09	23 50	4 52	18 50	
5	F.	11 48		5 27	19 19	E	5	S.	12 04	6 00	19 37		
6	Sa.	0 12	12 41	6 36	20 05		6	M.	0 56	12 51	7 12	20 17	
7	S.	1 14	13 25	7 39	20 44		7	Tu.	1 53	13 34	8 17	20 55	
8	M.	2 06	14 04	8 37	21 20		8	W.	2 42	14 14	9 15	21 31	
9	Tu.	2 54	14 42	9 30	21 55		9	Th.	3 26	14 51	10 09	22 06	
10	W.	3 39	15 19	10 19	22 30		10	F.	4 07	15 27	11 00	22 40	S
11	Th.	4 22	15 55	11 07	23 06		11	Sa.	4 46	16 02	11 49	23 13	
12	F.	5 03	16 30	11 54	23 41	S	12	S.	5 23	16 37	12 35	23 47	
13	Sa.	5 43	17 05		12 42		13	M.	5 59	17 13		13 19	
14	S.	6 24	17 41	0 16	13 31		14	Tu.	6 34	17 51	0 22	14 02	
15	M.	7 07	18 19	0 52	14 22		15	W.	7 10	18 31	0 58	14 45	
16	Tu.	7 52	19 02	1 30	15 17		16	Th.	7 48	19 16	1 36	15 30	
17	W.	8 40	20 53	2 11	16 17		17	F.	8 30	20 14	2 16	16 21	E
18	Th.	9 32	20 59	2 55	17 19		18	Sa.	9 19	21 29	3 00	17 16	
19	F.	10 27	22 23	3 47	18 14		19	S.	10 14	22 52	3 53	18 07	
20	Sa.	11 23	23 42	4 49	18 59	E	20	M.	11 10		4 57	18 54	
21	S.	12 11	5 58	19 36			21	Tu.	0 06	12 03	6 10	19 39	
22	M.	0 47	12 54	7 01	20 12		22	W.	1 10	12 53	7 21	20 23	
23	Tu.	1 41	13 34	7 59	20 49		23	Th.	2 07	13 42	8 30	21 07	N
24	W.	2 28	14 13	8 54	21 29		24	F.	2 59	14 30	9 33	21 52	
25	Th.	3 16	14 53	9 48	22 11		25	Sa.	3 47	15 17	10 32	22 38	
26	F.	4 02	15 35	10 42	22 55	N	26	S.	4 33	16 04	11 29	23 23	
27	Sa.	4 48	16 20	11 37	23 40		27	M.	5 18	17 02		12 24	
28	S.	5 35	17 08		12 35		28	Tu.	6 02	17 42	0 07	13 18	
29	M.	6 23	17 58	0 26	13 35		29	W.	6 47	18 37	0 51	14 13	
30	Tu.	7 13	18 52	1 14	14 37		30	Th.	7 35	19 39	1 36	15 10	E
							31	F.	8 27	20 49	2 24	16 09	

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours, from midnight to midnight.

The VELOCITY of the current at the maximum, is 4 to 8 knots.

The Moon's Declination is indicated thus : E, moon on the equator ; N, moon farthest north, and S, moon farthest south of the equator.

## JANUARY.

Date.	Day.	H. W. SLACK.		L. W. SLACK.		Moon.
		Morn'g.	After'n.	Morn'g.	After'n.	
1	Th.	0 53	12 59	7 27	19 11	
2	F.	2 01	13 57	8 35	20 24	
3	Sa.	3 02	14 49	9 44	21 18	N
4	Su.	3 56	15 39	10 44	22 07	
5	M.	4 45	16 29	11 38	22 51	
6	Tu.	5 30	17 17	12 26	23 34	
7	W.	6 17	18 08	.....	13 08	
8	Th.	7 01	19 02	0 21	13 50	
9	F.	7 52	19 57	1 09	14 33	E
10	Sa.	8 44	20 54	2 04	15 12	
11	Su.	9 37	21 54	3 04	15 48	
12	M.	10 31	22 55	4 11	16 29	
13	Tu.	11 26	.....	5 30	17 17	
14	W.	0 06	12 21	6 46	18 26	
15	Th.	1 20	13 15	7 53	19 35	
16	F.	2 31	14 07	8 51	20 38	S
17	Sa.	3 27	14 55	9 50	21 19	
18	Su.	4 12	15 37	10 38	21 54	
19	M.	4 47	16 13	11 20	22 24	
20	Tu.	5 15	16 49	11 56	22 54	
21	W.	5 43	17 23	12 26	23 28	
22	Th.	6 08	17 58	.....	12 57	
23	F.	6 39	18 34	0 02	13 29	E
24	Sa.	7 15	19 19	0 42	13 58	
25	Su.	7 56	20 09	1 28	14 26	
26	M.	8 43	21 04	2 23	14 57	
27	Tu.	9 36	22 06	3 30	15 31	
28	W.	10 28	23 18	4 37	16 23	
29	Th.	11 28	.....	5 53	17 31	
30	F.	0 36	12 37	7 27	18 49	
31	Sa.	1 54	13 44	8 45	19 56	N

## FEBRUARY.

Date.	Day.	H. W. SLACK.		L. W. SLACK.		Moon.
		Morn'g.	After'n.	Morn'g.	After'n.	
1	Su.	2 57	14 43	9 52	20 52	
2	M.	3 46	15 34	10 48	21 43	
3	Tu.	4 31	16 22	11 34	22 34	
4	W.	5 15	17 08	12 16	23 20	
5	Th.	5 54	17 56	.....	12 56	E
6	F.	6 35	18 41	0 09	13 29	
7	Sa.	7 18	19 31	0 59	13 56	
8	Su.	8 02	20 21	1 51	14 21	
9	M.	8 49	21 13	2 48	14 47	
10	Tu.	9 38	22 10	3 38	15 29	
11	W.	10 28	23 18	4 36	16 21	S
12	Th.	11 27	.....	5 46	17 30	
13	F.	0 38	12 26	7 20	18 43	
14	Sa.	1 55	13 28	8 38	19 48	
15	Su.	2 56	14 24	9 39	20 41	
16	M.	3 41	15 12	10 22	21 21	
17	Tu.	4 14	15 51	10 56	21 57	
18	W.	4 41	16 28	11 28	22 32	
19	Th.	5 09	17 05	11 59	23 11	
20	F.	5 36	17 39	12 25	23 53	E
21	Sa.	6 08	18 18	.....	12 48	
22	Su.	6 40	19 01	0 38	13 12	
23	M.	7 22	19 47	1 29	13 38	
24	Tu.	8 07	20 41	2 14	14 18	
25	W.	8 57	21 46	3 06	15 04	
26	Th.	9 53	22 58	4 11	16 03	N
27	F.	11 00	.....	5 39	17 10	
28	Sa.	0 20	12 18	7 14	18 34	
29	Su.	1 43	13 32	8 37	19 50	

## MARCH.

Date.	Day.	H. W. SLACK.		L. W. SLACK.		Moon.
		Morn'g.	After'n.	Morn'g.	After'n.	
1	M.	3 49	14 37	9 44	20 50	
2	Tu.	3 39	15 30	10 34	21 41	
3	W.	4 17	16 17	11 14	22 29	
4	Th.	4 51	17 00	11 46	23 16	
5	F.	5 25	17 39	.....	12 12	E
6	Sa.	6 02	18 21	0 03	12 36	
7	Su.	6 36	19 05	0 52	13 09	
8	M.	7 17	19 50	1 29	13 32	
9	Tu.	7 59	20 39	2 08	14 08	
10	W.	8 43	21 36	2 49	14 47	
11	Th.	9 32	22 39	3 41	15 35	
12	F.	10 30	23 53	4 58	16 30	S
13	Sa.	11 36	.....	6 30	17 54	
14	Su.	1 09	12 47	7 54	19 10	
15	M.	2 13	13 53	8 57	20 07	
16	Tu.	2 59	14 48	9 43	20 53	
17	W.	3 35	15 30	10 21	21 30	
18	Th.	4 04	16 07	10 55	22 11	
19	F.	4 33	16 45	11 23	22 53	E
20	Sa.	5 04	17 21	11 47	23 38	
21	Su.	5 34	18 02	.....	12 11	
22	M.	6 10	18 42	0 29	12 36	
23	Tu.	6 51	19 32	1 13	13 16	
24	W.	7 36	20 30	2 01	14 02	N
25	Th.	8 30	21 37	3 05	14 45	
26	F.	9 34	22 54	4 17	15 43	
27	Sa.	10 46	.....	5 41	16 55	
28	Su.	0 18	12 06	7 11	18 23	
29	M.	1 34	13 28	8 24	19 42	
30	Tu.	2 34	14 33	9 22	20 41	
31	W.	3 18	15 26	10 09	21 33	E

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours, from midnight to midnight.

The duration of Slack at either High or Low Water is 12 minutes on the average.

The moon's Declination is indicated thus: E, moon on the equator; N, moon farthest north, and S, moon farthest south of the equator. For the Yuulta, and other rapids and narrows in this region, see the differences of time in the table on page 59.

## MAY.

Date.	Day.	H. W.		SLACK.		L. W.		SLACK.		Moon.		JUNE.		L. W.		SLACK.		Moon.				
		Morn'g	After'n	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.			Morn'g	After'n	H. M.	H. M.	H. M.	H. M.					
1	Sa.	4	32	16	39	10	24	22	59			1	Tu.	4	36	17	34	11	09	23	58	
2	S.	4	32	17	13	10	58	23	32			2	W.	5	09	18	07	11	33	.....	.....	S
3	M.	5	04	17	47	11	31	.....	.....			3	Th.	5	45	18	44	0	40	11	59	
4	Tu.	5	34	18	24	0	04	12	03			4	F.	6	19	19	23	1	22	12	27	
5	W.	6	07	19	00	0	48	12	25	S		5	Sa.	7	00	20	04	2	02	12	59	
6	Th.	6	44	19	44	1	33	12	50			6	S.	7	43	20	49	2	39	13	41	
7	F.	7	25	20	31	2	20	13	23			7	M.	8	34	21	38	3	19	14	32	
8	Sa.	8	12	21	25	3	07	14	04			8	Tu.	9	32	22	29	4	02	15	37	
9	S.	9	05	22	26	3	53	15	00			9	W.	10	36	23	24	4	45	16	52	E
10	M.	10	07	23	27	4	45	16	07			10	Th.	11	42	.....	.....	5	36	18	10	
11	Tu.	11	18	.....	.....	5	44	17	24			11	F.	0	16	12	52	6	20	19	27	
12	W.	0	23	12	29	6	47	18	45			12	Sa.	1	08	13	55	7	12	20	28	
13	Th.	1	18	13	36	7	44	19	54			13	S.	1	58	14	55	8	14	21	23	
14	F.	2	01	14	33	8	30	20	52			14	M.	2	45	15	47	9	14	22	24	N
15	Sa.	2	40	15	39	9	09	21	48			15	Tu.	3	33	16	34	9	59	23	22	
16	S.	3	18	16	04	9	44	22	32			16	W.	4	22	17	20	10	43	.....	.....	
17	M.	3	57	16	49	10	29	23	15			17	Th.	5	08	18	09	0	17	11	26	
18	Tu.	4	38	17	32	11	14	.....	.....			18	F.	5	57	18	57	1	07	12	10	
19	W.	5	18	18	20	0	10	11	50			19	Sa.	6	49	19	53	1	51	13	00	
20	Th.	6	06	19	10	1	06	12	31			20	S.	7	45	20	49	2	36	13	53	
21	F.	6	59	20	12	2	03	13	17			21	M.	8	49	21	46	3	25	14	57	
22	Sa.	7	57	21	17	2	59	14	10			22	Tu.	9	58	22	44	4	13	16	13	E
23	S.	9	04	22	23	3	55	15	17			23	W.	11	07	23	43	5	02	17	36	
24	M.	10	19	23	29	4	57	16	34			24	Th.	.....	.....	12	20	5	57	19	03	
25	Tu.	11	36	.....	.....	6	05	18	01			25	F.	0	39	13	32	6	54	20	09	
26	W.	0	31	12	56	7	07	19	18			26	Sa.	1	36	14	37	7	57	21	03	
27	Th.	1	24	14	06	7	59	20	25			27	S.	2	23	15	30	8	42	21	49	
28	F.	2	15	15	02	8	42	21	26			28	M.	3	04	16	11	9	39	22	39	
29	Sa.	2	55	15	47	9	15	22	07			29	Tu.	3	41	16	47	10	08	23	34	S
30	S.	3	30	16	23	9	55	22	42			30	W.	4	17	17	22	10	37	.....	.....	
31	M.	4	03	16	58	10	33	23	15													

## JULY.

		H. M.																				
1	Th.	4	54	17	53	0	06	11	05			1	S.	5	50	18	28	0	48	11	47	
2	F.	5	28	18	27	0	42	11	34			2	M.	6	23	19	01	1	16	12	25	E
3	Sa.	6	05	18	59	1	12	12	08			3	Tu.	7	04	19	36	1	41	13	08	
4	S.	6	44	19	38	1	41	12	43			4	W.	7	48	20	18	2	04	13	58	
5	M.	7	25	20	18	2	12	13	20			5	Th.	8	38	21	04	2	30	14	58	
6	Tu.	8	11	21	00	2	46	14	09	E		6	F.	9	35	21	51	3	00	15	58	
7	W.	9	04	21	46	3	19	15	08			7	Sa.	10	40	22	48	3	49	17	10	
8	Th.	10	01	22	36	3	56	16	16			8	M.	11	53	23	52	4	53	18	44	
9	F.	11	10	23	29	4	37	17	38			9	Tu.	.....	.....	13	18	6	03	20	14	N
10	Sa.	0	30	13	38	5	24	18	59			10	W.	1	04	14	28	7	20	21	23	
11	S.	.....	.....	12	23	6	37	20	11			11	Th.	2	15	15	24	8	27	22	23	
12	M.	1	31	14	44	7	54	21	22			12	F.	3	15	16	09	9	23	23	10	
13	Tu.	2	28	15	28	8	52	22	23			13	Sa.	4	08	16	50	10	14	23	52	
14	W.	3	21	16	25	9	44	23	19			14	Th.	5	35	18	11	0	32	11	48	E
15	Th.	4	12	17	10	10	30	.....	.....			15	F.	6	21	18	50	1	06	12	38	
16	F.	5	00	17	52	0	08	11	13			16	S.	7	10	19	36	1	35	13	30	
17	Sa.	5	51	18	37	0	51	12	00			17	Tu.	8	00	20	23	2	02	14	27	
18	S.	6	37	19	25	1	33	12	52			18	W.	8	54	21	12	2	30	15	17	
19	M.	7	31	20	14	2	10	13	47			19	Th.	9	51	22	04	3	14	16	18	
20	Tu.	8	26	21	07	2	44	14	46			20	F.	10	58	23	03	4	05	17	31	
21	W.	9	25	22	02	3	19	15	55			21	Sa.	.....	.....	12	17	5	11	18	59	
22	Th.	10	28	22	55	3	57	17	02			22	M.	0	06	13	35	6	27	20	17	S
23	F.	11	39	23	54	4	53	18	17			23	Tu.	1	15	14	39	7	42	21	22	
24	Sa.	.....	.....	12	54	6	00	19	31			24	W.	2	17	15	28	8	37	22	12	
25	S.	0	52	14	13	7	17	20	45			25	Th.	3	05	16	03	9	16	22	47	
26	M.	1	50	15	12	8	19	21	47			26	F.	3	46	16	31	9	50	23	18	
27	Tu.	2	45	15	57	9	10	22	38			27	Sa.	4	20	16	59	10	23	23	48	
28	W.	3	29	16	33	9	43	23	17			28	Th.	4	56	17	25	11	00	.....	.....	
29	Th.	4	06	17	04	10	12	23	49			29	F.	5	29	17	55	0	12	11	39	E
30	F.	4	40	17	33	10	44	.....	.....			30	S.	6	06	18	24	0	33	12	20	
31	Sa.	5	14	17	58	0	19	11	15			31	Tu.									

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours, from midnight to midnight.

The duration of Slack at either High or Low Water is 12 minutes on the average.

The Moon's Declination is indicated thus: E, moon on the equator; N, moon farthest north, and S, moon farthest south of the equator. For the Yuculta, and other rapids and narrows in this region, see the differences of time in the table on page 59.

## SEPTEMBER.

## OCTOBER.

Date.	Day.	H. W. SLACK.		L. W. SLACK.		Moon.	Date.	Day.	H. W. SLACK.		L. W. SLACK.		Moon.						
		Morn'g.	After'n.	Morn'g.	After'n.				Morn'g.	After'n.	Morn'g.	After'n.							
1	W.	6	47	19	01	0	54	13	08	1	F.	7	11	19	12	0	54	13	33
2	Th.	7	31	19	42	1	17	13	49	2	Sa.	8	04	20	01	1	36	14	32
3	F.	8	21	20	27	1	54	14	36	3	Ss.	9	05	21	01	2	13	15	39
4	Sa.	9	18	21	18	2	38	15	45	4	M.	10	16	22	06	3	05	16	57
5	Ss.	10	22	22	22	3	20	17	06	5	Tu.	11	33	23	21	4	14	18	24
6	M.	11	39	23	36	4	20	18	41	6	W.	.....	.....	12	47	5	40	19	38
7	Tu.	.....	13	02	5	44	20	02	.....	7	Th.	0	43	13	51	7	03	20	43
8	W.	0	55	14	12	7	06	21	08	8	F.	1	55	14	44	8	10	21	38
9	Th.	2	07	15	07	8	18	22	04	9	Sa.	2	54	15	25	9	09	22	21
10	F.	3	06	15	51	9	14	22	50	10	Ss.	3	40	16	03	9	59	22	53
11	Sa.	3	57	16	28	10	07	23	24	11	M.	4	28	16	39	10	47	23	20
12	Ss.	4	41	17	04	10	57	23	53	12	Tu.	5	09	17	12	11	37	23	44
13	M.	5	22	17	43	11	46	.....	.....	13	W.	5	52	17	48	.....	12	15	.....
14	Tu.	6	06	18	19	0	20	12	37	14	Th.	6	32	18	26	0	18	12	52
15	W.	6	52	19	00	0	45	13	16	15	F.	7	17	19	05	0	52	13	28
16	Th.	7	39	19	41	1	21	13	57	16	Sa.	8	03	19	50	1	27	14	07
17	F.	8	29	20	25	1	58	14	38	17	Ss.	8	52	20	38	1	56	15	11
18	Sa.	9	23	21	15	2	37	15	35	18	M.	9	49	21	30	2	35	16	13
19	Ss.	10	22	22	14	3	13	16	44	19	Tu.	10	54	22	36	3	31	17	20
20	M.	11	34	23	22	4	10	18	14	20	W.	12	02	23	46	4	45	18	28
21	Tu.	.....	12	52	5	28	19	36	21	Th.	.....	.....	13	01	6	05	19	31	
22	W.	0	38	14	00	6	54	20	38	22	F.	0	59	13	51	7	12	20	28
23	Th.	1	44	14	47	8	00	21	26	23	Sa.	1	58	14	33	8	12	21	11
24	F.	2	38	15	22	8	44	22	06	24	Ss.	2	48	15	06	9	03	21	44
25	Sa.	3	21	15	51	9	22	22	40	25	M.	3	30	15	39	9	50	22	13
26	Ss.	3	57	16	19	10	02	23	07	26	Tu.	4	10	16	14	10	39	22	40
27	M.	4	34	16	49	10	43	23	30	27	W.	4	51	16	47	11	17	23	18
28	Tu.	5	09	17	18	11	25	23	53	28	Th.	5	29	17	25	11	56	23	58
29	W.	5	47	17	52	12	11	.....	.....	29	F.	6	12	18	03	.....	12	47	.....
30	Th.	6	24	18	30	0	17	12	50	30	Sa.	7	00	18	51	0	30	13	42
									31	Ss.	7	54	19	45	1	08	14	42	

## NOVEMBER.

## DECEMBER.

	H. M.			H. M.															
1	M.	8	57	20	45	1	54	15	44	1	W.	9	50	21	46	2	42	16	22
2	Tu.	10	08	21	55	2	53	16	48	2	Th.	10	53	23	00	4	01	17	19
3	W.	11	19	23	20	4	11	17	59	3	F.	11	54	.....	.....	5	32	18	11
4	Th.	.....	12	31	5	38	19	12	4	Sa.	0	20	12	49	6	55	19	11	
5	F.	0	40	13	32	7	01	20	13	5	Ss.	1	33	13	43	8	11	20	04
6	Sa.	1	54	14	23	8	10	21	00	6	M.	2	37	14	29	9	06	21	00
7	Ss.	2	53	15	04	9	10	21	37	7	Tu.	3	29	15	11	9	52	21	46
8	M.	3	42	15	39	10	05	22	07	8	W.	4	10	15	49	10	32	22	25
9	Tu.	4	23	16	14	10	45	22	45	9	Th.	4	48	16	26	11	19	22	51
10	W.	5	01	16	50	11	22	23	21	10	F.	5	26	17	01	12	03	23	19
11	Th.	5	39	17	24	11	58	23	56	11	Sa.	6	01	17	37	12	44	23	48
12	F.	6	20	18	01	.....	12	44	.....	12	Ss.	6	38	18	10	.....	20	13	52
13	Sa.	6	58	18	39	0	20	13	28	13	M.	7	16	18	51	0	20	13	52
14	Ss.	7	41	19	18	0	48	14	12	14	Tu.	7	56	19	34	0	58	14	25
15	M.	8	25	20	00	1	20	14	55	15	W.	8	40	20	20	1	38	15	01
16	Tu.	9	13	20	51	1	59	15	37	16	Th.	9	27	21	13	2	22	15	41
17	W.	10	06	21	49	2	50	16	25	17	F.	10	13	22	16	3	18	16	23
18	Th.	11	04	22	58	3	53	17	19	18	Sa.	11	05	23	23	4	27	17	07
19	F.	11	59	.....	.....	5	08	18	20	19	Ss.	11	55	.....	.....	5	46	17	55
20	Sa.	0	10	12	54	6	22	19	19	20	M.	0	34	12	45	7	05	18	45
21	Ss.	1	17	13	41	7	28	20	05	21	Tu.	1	35	13	35	8	08	19	48
22	M.	2	14	14	21	8	28	20	45	22	W.	2	32	14	23	9	04	20	50
23	Tu.	3	00	14	59	9	28	21	22	23	Th.	3	24	15	10	10	05	21	37
24	W.	3	44	15	38	10	12	22	09	24	F.	4	14	15	58	11	01	22	N
25	Th.	4	30	16	19	10	59	22	55	25	Sa.	5	01	16	44	11	55	23	05
26	F.	5	14	16	59	11	54	23	30	26	Ss.	5	45	17	34	12	44	23	50
27	Sa.	6	01	17	45	.....	12	48	.....	27	M.	6	33	18	23	.....	13	29	.....
28	Ss.	6	48	18	36	0	10	13	42	28	Tu.	7	24	19	20	0	39	14	15
29	M.	7	45	19	31	0	53	14	34	29	W.	8	18	20	21	1	30	15	02
30	Tu.	8	47	20	33	1	41	15	25	30	Th.	9	16	21	27	2	31	15	47
									31	F.	10	16	22	37	3	44	16	32	

The TIME used is Pacific Standard, for the 120th Meridian west. It is counted from 0 to 24 hours, from midnight to midnight.

The duration of Slack at either High or Low Water is 12 minutes on the average.

The Moon's Declination is indicated thus: E, moon on the equator; N, moon farthest north, and S, moon farthest south of the equator. For the Yuculta, and other rapids and narrows in the region, see the differences of time in the table on page 59.

## SAILING DIRECTIONS.—SEYMORE NARROWS, B. C.

The following directions are given by Lieutenant Commander B. L. Johnson, R.N.R., of the Vancouver Pilotage service, who has navigated various classes of coasting vessels through these narrows. In these narrows, the ebb runs northward and the flood southward.

### DURING THE EBB.

*North bound.*—Pass Race Point at a distance of one cable, heading directly for broken water on Ripple rock. Pass Maud island Lighthouse Point at a distance of about 300 feet, or just outside the swirl off the point, steering for northern edge of broken water from Ripple rock; then with this swirl abaft the beam, port easy until in mid-channel off North bluff.

*Warning.*—If Maud island Lighthouse Point is given a wide berth and a course is set to clear Ripple rock, the current is on the starboard quarter, and the ship is set towards the Rock, and when porting helm to avoid this, there is danger of being forced into the eddy.

The narrows can be safely run, north bound, at any stage of the ebb, by a handy ship if fitted with good steering gear. The broken water over Ripple rock can be plainly seen even on the darkest nights when the current has any strength.

*South bound.*—This is the most awkward passage to make through Seymour narrows and should not be attempted except at first and last hours of ebb, and then only by handy ships with at least thirteen knots speed. On big tides, that is, tides with more than thirteen feet range at Port Simpson, a speed of sixteen knots and a vessel particularly quick to answer her helm is necessary for the safe passage during the second and third hours of ebb.

*Directions.*—Keep mid-channel until North bluff is abeam and then head for westerly extreme of Maud island, keeping on edge of eddy. As Canoe pass opens, be lively with starboard helm. Meet the current fair end on, as Canoe pass closes. After passing Ripple rock, do not hug Maud island too close, as there is an inset between the eddy and main current a short distance northwest from Lighthouse Point. The strongest current is off this point and the over-fall can be clearly distinguished during the second, third and fourth hours of ebb.

Strangers finding the ebb running are advised to navigate at slack water only. The passage should be used with caution at night with any strength of current, even by those of intimate local knowledge.

### DURING THE FLOOD.

*North bound.*—After passing Copper cliffs, keep to starboard of mid-channel to avoid heavy swirls off Race Point; round this point at a distance of two cables and head for north point of Menzies bay, with ship's head about W. by S. magnetic. As the channel opens, swing easy until ship is heading up mid-channel between Maud island and Ripple rock. Avoid being set towards Maud island. When Lighthouse Point is abaft the beam, the starboard shore may be favoured, as the current here is quite straight. When Canoe pass opens, work into mid-channel to avoid eddying and broken water off North bluff.

The strongest current is off the extreme west point of Maud island. The over-fall here is quite distinct. A thirteen-knot vessel may work up as far as Ripple rock on any tide, but a speed of at least seventeen knots is required to drive through at full strength of spring tides. It is advisable to make the turn, so as to be stemming the current when passing Lighthouse Point, where the straight current has least width. The passage through Seymour narrows against the flood is safe and easy if a vessel has sufficient power.

*South bound.*—Keep mid-channel until North bluff is abeam, then head between Ripple rock and Maud island, keeping this general southeast course until Gowland harbour is closing with Race Point; then starboard to about E. by N. keeping this general course until Cape Mudge light is well open off Orange Point, then swing easy and favour port shore to obtain full benefit of fair current.

The line of straight current during the flood can be clearly distinguished on a calm night.

## SLACK WATER IN THE NORTHERN PASSES.

The northern passes may be taken to include Seymour narrows, the Yuculta, and several others in the complex of channels and passages in that region, in which rapids occur during the run of the tidal streams. A knowledge of the time of slack water in these is of the first importance to the lumber industry in towing booms, as well as for navigation in general.

**SEYMOUR NARROWS.**—Observations of the turn of the current in Seymour narrows were obtained by the United States Coast Survey in 1897. Further observations were obtained by the Tidal Survey in 1910 and 1913, taken simultaneously at Seymour narrows and the Yuculta, by two observers in camp, with chronometers for accurate time, during six to nine months in each season.

In Seymour narrows, there is no definite relation between the time of slack water and high or low water in the locality itself; as the time-interval between them varies from ten minutes to four hours. Exhaustive investigations based on the observations obtained, have proved that the time of slack water is more closely related to the tide of the open Pacific than to any type of tide in the locality, or in the land-locked region of the Strait of Georgia. Satisfactory methods of calculation with reference to Port Simpson, one of the principal tidal stations on the open Pacific, were eventually discovered.

For High-water slack, the time-interval with Port Simpson is fairly constant; but a variation is allowed for, which accords with the moon's phases. For Low-water slack, there is a pronounced alternation in the time-interval, amounting to over an hour early or late, on successive tides. This has been reduced to law, the time-intervals forming a divergent series which alternates with the moon's upper and lower transits, the divergence increasing up to the maximum declination of the moon. The Slack Water tables for Seymour narrows are calculated on these principles.

**OTHER PASSES.**—Seymour narrows and the Yuculta are the two extreme passes, next Vancouver island and next the mainland. It has now been ascertained that the time of slack water in the intermediate passes, can best be found by a difference of time with Seymour narrows, as shown in the table opposite. The results given are based on observations of slack water for the following periods, which were taken by parties camped on shore, with chronometers for correct time:—At the Yuculta for  $13\frac{1}{2}$  months in all, in the two seasons of 1910 and 1913; in Chatham channel for 5 months in 1917; in Wellbore channel for  $6\frac{1}{2}$  months in 1916; at Green Point rapids for 5 months in 1917; in Blind channel for  $5\frac{1}{2}$  months in 1918; at Hole-in-the-Wall for 7 months in 1913, and a full year in 1917 to 1918; at Surge narrows for 4 months in 1918 to 1919.

The various rapids require description, as they are not always on the charts, and some of them are still unsurveyed. They are as follows:—*Yuculta rapids*. There are rapids in places for four miles from Dent islands to Stuart island. The time given in the table opposite is for the true narrows, opposite the south end of Stuart island. *Arran rapids*.—A passage north of Stuart island, little used, leading from the middle Yuculta to Bute inlet. It is locally pronounced, Iron rapids. *Surge narrows*. Marked on the chart, opposite Read island. This pass is avoided except by local steamers; as the channel turns abruptly at a right angle, and the water thus makes its way between a row of uncharted islands, causing dangerous cross-currents. *Hole-in-the-Wall*. The point for which the time is given, is the west end, next to Okisollo. The current is sharply reversed at the turn. *Okisollo*. There are two rapids in this channel, and slack is practically at the same time in both. The Lower Okisollo coincides with Hole-in-the-Wall. *Green Point rapids*. In the western portion of Cordero channel, nearly a mile east of Green Point, which is three miles east of the entrance to this channel on Loughborough inlet. *Blind channel*. A mile and a half south of Green Point rapids. The chart name, Mayne passage, is not known locally. *Whirlpool rapids*. At the middle of the length of Wellbore channel. *Chatham channel*. Running from the south side of Knight inlet. The time given is for the east end, near Root Point.

These interior channels and passes are extensively used in towing booms of logs, and by local steamers which supply the lumber camps.

## TIME OF SLACK WATER.—NORTHERN PASSES.

Table of differences to be subtracted from the time of Slack Water in Seymour narrows. Observations have now been obtained at all the channels and rapids in this table ; and values for both the slacks can therefore be given.

Narrows or Rapids.	Reference Tables.	For High Water slack.	For Low Water slack.
Chatham channel. At the east end . . . . .	Seymour Narrows. . . . .	Subt. 0 h. 45 m.	Subt. 1 h. 25 m.
Whirlpool rapids, Wellbore channel . . . . .	" . . . . .	" 1 h. 46 m.	" 1 h. 51 m.
Green Point rapids, Cordero channel . . . . .	" . . . . .	" 1 h. 33 m.	" 1 h. 26 m.
Blind channel. (Mayne passage) . . . . .	" . . . . .	" 1 h. 12 m.	" 1 h. 06 m.
Hole-in-the-Wall.* At the west end . . . . .	" . . . . .	" 0 h. 52 m.	" 0 h. 57 m.
Okisollo. For Upper or Lower rapid... . . . .	" . . . . .	" 0 h. 50 m.	" 0 h. 53 m.
Surge narrows, opposite Read island.. . . . .	" . . . . .	" 0 h. 50 m.	" 0 h. 38 m.
Yuculta.+ At south end of Stuart island.....	" . . . . .	" 0 h. 45 m.	" 0 h. 38 m.

\* The duration of Slack water in Ho'e-in-the-Wall is 4 minutes on the average. In Surge narrows the duration is 11 minutes, and in the Yuculta 12 minutes, on the average.

+ These values are for the true narrows, as indicated. At Dent islands, four miles north, the time of slack water is about 25 minutes earlier. In Arran rapids, it is 12 m. earlier.

## SLACK WATER.—SEYMOUR INLET.

The narrow entrance to this inlet is at the inner end of Slingsby channel, which opens off Queen Charlotte sound. The time of slack water in the narrows has no constant relation to the time of the tide in the open sound. From extended investigations, very definite relations were eventually discovered, which enable the time of slack water to be found by the following rules :—

For High Water slack. Add 3 h. 03 m. to the time of high water at Clayoquot.

For Low Water slack. Take the time of high water at Port Simpson and the next following high water at Sand Heads, which is from two to five hours later ; and find the mid-time between the two. From this mid-time, subtract 6 h. 05 m. The result will be the time of Low-water slack. (In the Sand Heads tables, a comparison of the heights of the successive tides will show which is high water. The readiest way to find the mid-time between the two high waters, is to add them together and take half the sum of the two. If one tide is before midnight and the other after, care must be taken to notice whether the time thus found is A.M. or P.M. before subtracting the difference given above.)

The duration of slack water is 6 m. on the average.

## WEST COAST OF VANCOUVER ISLAND.

From observations taken by a coasting steamer at the request of this Survey, on the run from Cape Cook to Nootka sound, the set was found to be always northwestward and never southeastward. The amount of the set in moderate weather, ranged usually from 1 to  $1\frac{1}{2}$  knots per hour. The weakest set during westerly winds was  $\frac{1}{2}$  knot, and with strong east wind it increased to 2 or even  $2\frac{1}{2}$  knots. This behaviour of the current is confirmed by fishermen on the coast. They give practically the same limits for the variation of the strength according to the direction of the wind ; and they state that the set is never southeastward at any time of the day or night, because of tidal influence.

## PASSES OFF THE STRAIT OF GEORGIA AND AMONG THE GULF ISLANDS.

For three of these passes, First narrows, Active pass and Porlier pass, tables of Slack Water are given in full. These are calculated from the time of the tide at Clayoquot and Sand Heads, by the methods explained before the Tables of Slack Water. (See page 43.)

After careful investigation, the time of slack water in the other passes of this region, proves to be in closer accord with these leading passes than with the time of the tide. The time of slack water in the passes mentioned below, can therefore be found by applying the differences indicated, to the Slack Water Tables named on the same line with them.

Passes and Narrows.	Reference tables.	For High Water slack.	For Low Water slack.	Velocity at maximum.
Boundary pass.....	Active pass.....	Subtract 0 h. 05 m.	Add 0 h. 20 m.	4 to 6 knots.
Sansum narrows.....	" " .....	" 0 h. 37 m.	" 0 h. 24 m.	1 to 3 "
Dodd narrows.....	Porlier pass.....	" 0 h. 17 m.	Subt. 0 h. 25 m.	8 to 10 "
Gabriola pass.....	" " .....	" 0 h. 04 m.	" 0 h. 15 m.	6 to 8 "
Seechelt rapids.....	First narrows .....	Add 1 h. 12 m.	Add 1 h. 35 m.	10 to 12 "

In these passes, the duration of slack current is quite short, except in Sansum narrows where the strength is less. The flood sets northward and the ebb southward, in the first four of these passes and narrows.

For the effect of gales or heavy winds upon the time of slack water, see the notes under Wind Influence on the opposite page.

*Boundary pass.*—The differences for this pass are approximate; being the result of 38 observations during surveys by H. M. S. *Egeria* in 1905, compared with Sand Heads. The result was also checked by correlation with the differences from Port Townsend given in the United States tide tables. The time of slack as found, is for the navigable portion of the pass; as there is often considerable variation from in-shore tidal streams.

*Sansum narrows.*—Observations were obtained during daylight for seven months continuously, from May to November in 1914. After careful comparisons, there was found to be less variation with the time of slack water in Active pass, than with the time of the local tide, or the tide in the Strait of Georgia.

*Dodd narrows.*—Observations were obtained during twelve and a half months, from April 1914, to April, 1915. When compared with simultaneous observations in Porlier pass, the difference in the time of slack water in the two passes proves to be remarkably constant. The variations between slack water and the time of the tide are so nearly the same in both passes, that the slack waters themselves are in accord. The duration of slack water is 6 m. on the average.

*Gabriola pass.*—Observations were obtained during six months, from May to October in 1915, and compared with simultaneous observations in Porlier pass. The above remarks regarding Dodd narrows apply to this pass also. The duration of slack water is 4 m. on the average.

*Seechelt rapids.*—Observations were obtained during six months, from May to October in 1914. In the Strait of Georgia, as Lower low water falls much below any of the other tides, the effect of this requires to be allowed for in calculating the Slack Water tables for First narrows. There is still an outstanding variation however, in the difference with Seechelt rapids.

Hence, when the diurnal inequality is large, the slack at Lower low water will usually be quarter of an hour later than the time obtained by the average difference as above given. The duration of slack water is 9 m. on the average.

*Baynes channel.*—Between Chatham island and Ten-mile Point, east of Victoria. For time of Slack Water at both high and low tide:—

Add 1 hour 20m. to time of tide at Victoria. Greatest velocity, 3 to 4 knots.

When the tide at Victoria rises or falls continuously during two successive tidal periods, the current also runs continuously in one direction or the other. Hence there are no slack waters where the tides are left blank in the Tide Tables. The above difference applied to the tides which are given in the tables, will therefore furnish all the times of slack water at which the current actually turns.

#### WIND INFLUENCE IN PASSES AMONGST THE GULF ISLANDS.

As the strength of the current in Sansum narrows is more moderate than in most of the passes, the time of slack water is more distinctly influenced by strong winds. As in all these passes, the flood sets northward and the ebb southward. Heavy or long continued winds from the W. or N. W. cause the slack at High Water to be earlier, and the slack at Low Water to be later than the normal time as calculated. Winds from the S.E. have the opposite effect, but their influence is less pronounced.

The wind influence as observed in Dodd narrows and Porlier pass may be taken as characteristic of others in the outer chain of the Gulf islands. With such strong currents, winds even when heavy, have little effect unless they hold in the same direction for at least 12 hours. Northerly gales between N.W. and N.E. cause the slack to be earlier at High Water and later at Low Water, and they make the ebb stronger than usual. Southerly winds have less effect than these; but gales between S.E. and S.W. cause the slack to be somewhat earlier at Low Water and later at High Water; and these winds make the flood stronger. The short runs on the half tides, having less strength, are also more influenced relatively than the long runs. The same remarks apply to Gabriola pass.

It is found at Dodd narrows, that a wind blowing in the strait outside has the same effect on slack water as if blowing in the narrows. The other passes, opening into the strait, are more nearly under the same wind conditions as the strait itself.

#### TIDE AND CURRENT IN THE LONG INLETS.

The time of High and Low Water at the head of the long inlets on the coast is very little later than at the mouth. This has been ascertained by simultaneous observations with tide gauges operating for several months, the time being kept accurately at the mouth and head by the use of chronometers. The results for three inlets are as follows:—

Long Inlets.	H. W.	L. W.
From Whaletown on Cortes island to the head of Bute inlet : distance 52 miles. From comparison of observations in two different seasons at these localities, with the same reference station. . . . .	3 m. later.	9 m. later.
From Namu to Bella kula, by Burke channel and Bentinck arm : distance 69 miles. From 144 simultaneous observations . . . . .	2 m. later.	7 m. later.
From Hartley bay in Wright sound to Kitimat, by Douglas channel : distance 49 miles. From 222 simultaneous observations . . . . .	4 m. later.	4 m. later.

Similar differences may be used to ascertain the time of the tide at the head of other inlets on the coast. The range of the tide at the head of these inlets is only from 2 to 12 per cent greater than at their mouth.

This rapid progress of the tidal undulation must be due to the great depth of such inlets. Where the depth is so great, the whole surface of the inlet rises and falls simultaneously, in correspondence with the impulse at its mouth given by the rise and fall of the tide in the open. There is little current except in the mouth of the inlet, where the pulsation takes place.

### HECATE STRAIT.

The following information regarding Hecate strait, between the Queen Charlotte islands and the mainland, was obtained from Captain A. Freeman, who has been engaged in steamer fishing in those waters during many years, at all seasons, summer and winter.

In general, the flood coming in through Dixon entrance turns southeastward and meets the flood, coming up from the south, in the middle of Hecate strait about the latitude of Skidegate. This general behaviour accords with the indications given by the arrows on the chart.

A change in this behaviour occurs with the season of the year. In winter and spring the flood streams meet in the latitude of Cape Ball and Browning entrance (Lat.  $53^{\circ} 43'$ ) but in the late summer, from about the middle of July to the middle of September, they meet some 25 or 30 miles farther south.

The flood stream through Dixon entrance, on reaching the northern end of Hecate strait, divides at a point midway between Rose spit and Dundas island. The weaker part of the stream sets northward past Dundas island, no doubt because of the indraught towards Portland canal and the neighbouring inlets. The main flood turns southeastward into Hecate strait; and in winter the flood and ebb are here very regular; but in the late summer, as above indicated, the flood stream greatly exceeds the ebb. In August especially, there may be  $2\frac{1}{2}$  to 3 knots of flood, with little appreciable ebb or only slack water.

These changes in the tidal streams are similar to the annual variation in the time of the tide itself, which gives rise to variation in the Tidal Differences.

Farther south, where the strait widens, in the latitude of Porcher island, the tidal streams rarely exceed one knot in the central part of the strait. But along shore, from Cape George on Porcher island to the Butterworth rocks, the strongest set is northwestward with the ebb, and the flood is hardly appreciable. Within five miles of the shore, the ebb stream may exceed 3 knots per hour.

The southern end of Hecate strait is so wide, that the tidal streams are quite weak except close to the shore of the Queen Charlotte islands. The flood is there northwestward and the ebb southeastward.

Off the southern end of the Queen Charlotte islands, the direction of the flood and ebb is northeast and southwest, around the south extreme of Moresby island.

### DIXON ENTRANCE.

The following information was obtained during surveys by H.M.S. *Egeria*, from observations between April and October in 1907.

*Masset harbour*.—At a point five miles within the entrance. The flood stream continues to run for  $2\frac{1}{4}$  hours and the ebb stream for  $2\frac{1}{2}$  hours after it is high or low water by the shore. The maximum velocity at springs is 5 knots on the flood and  $5\frac{1}{2}$  on the ebb. During the largest tides the duration of slack water is very brief.

*Naden harbour*.—In Alexandra narrows, the flood stream continues to run for 15 minutes and the ebb stream for 20 minutes after it is high or low water by the shore. The flood attains a velocity of 2 knots and the ebb  $2\frac{1}{2}$  knots.

*Parry passage*.—In this passage, the tidal streams turn 1 hour 08 m. before it is high and low water by the shore. At the springs, the flood attains a velocity of 5 knots and the ebb 3 knots. The tidal streams in the Solide channel do not exceed 3 knots.

The time of the turn of these tidal streams may be found by the use of the Tidal Difference for the locality in question, together with the time of turn with reference to the local tide as here stated.

## RELATION OF THE MOON TO THE TIDE.

The influence of the moon on the tides takes place in three leading periods or months of different lengths :—(1) The well-known month of the moon's phases (synodic month) from new moon to new moon. (2) The month of the moon's distance (anomalistic month) from perigee to perigee. (3) The month of the moon's declination, north and south of the equator ; the declination being another word for the same thing as latitude on the earth. Just as the sun crosses the equator twice in the course of the year and goes north in summer and south in winter, so the moon does in the course of the declination-month. There is thus a time in each month when the moon rises to a high altitude on the meridian ; and it falls to a low meridian altitude half a month later. The three types of month above mentioned, has each its own special length, the first being the longest ; and they therefore over-run each other.

The most important fact to note is that these various movements of the moon have not the same relative effect upon the tide in different regions of the world. As a rule, in any particular region, some one of these movements has so preponderating an effect that the influence of the others is obscured. Or, it may be that two of them have a nearly equal effect and the influence of the third is difficult to detect.

In the North Atlantic, the most marked feature of the tide is the variation from spring to neaps in accordance with the moon's phases. But to assume that this must be the leading feature everywhere in the world, and that for practical purposes all other influences may be ignored, is a mistake which has placed a serious obstacle in the way of the correct understanding of the tides generally. Even on the borders of the North Atlantic the springs and neaps are not always dominant ; as in the Bay of Fundy, where the variation in the range of the tide with the moon's distance is distinctly greater than the variation from springs to neaps.

When the moon is at its extreme declination, north or south of the equator, its attraction is oblique to the plane of the earth's equator, which gives rise to diurnal inequality in the tide. Almost everywhere, there are a few days, twice in the month, when this inequality is quite noticeable. In some regions it may become very large, as in Northumberland strait, where the difference in range between the two tides of the day may be half as much again as the true difference between springs and neaps. On the Pacific coast, the moon's declination is the dominant element. In Fuca strait and the Strait of Georgia the resulting inequality becomes so developed that it obscures every other feature in the tide. When the moon is on the equator, the day and night tides are equal in range ; but as the moon's declination increases, it gives rise to one pair of large tides, while the other two tides of the day are reduced to half tides. The time-interval from one tide to the next also becomes unequal. It is only when the moon is on the equator that successive high waters are equally spaced in time. After that, the intervals between them become shorter and longer alternately, until the moon reaches its maximum declination, when the intervals are the most unequal.

In regions where declination is thus the dominant element, the change in the declination of the sun during the course of the year, may have a greater effect than any other of the moon's own motions. There is accordingly a marked annual variation ; as the largest tides, due to inequality, must occur when both the sun and the moon are north or south of the equator at the same time. Hence the extreme tides of the year occur at the moon's maximum declination which is nearest to the solstice, in summer and in winter.

The currents in the passes in British Columbia are affected in the same way as the tide itself. It is only when the moon is on the equator that the tidal streams in the two directions run for the same length of time and with the same strength. Otherwise they show an inequality which becomes greatest when the moon is at its maximum declination, when the long run and the short run become the most unequal. To show when this occurs, the dates at which the moon reaches its maximum, north and south of the equator, are indicated in all the tables of slack water.

It is thus evident that a truly average tide can only occur midway between springs and neaps, at a time when the moon is on the equator and also at its mean distance. Of all the variations from this average, the greatest by far occurs in regions where diurnal inequality is the dominant feature in the tide.





